Focus – centre to violet, shorten the focus (increase micrometer reading)

ume Temp.....
ocus.....
ume Temp.....

wer Angle End | De

me Temp.....

cus.....

me Temp.....

Transparency Conditions.....

| ur Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | | | | | DAVID DUNLAP OBSERVATORY | |
| | | | | | | 74" LOGBOOK | |
| | | | | | | VOL 21 | |
| | | | | | | PLATE NOS 17816 - 18964 | |
| | | | | | | OCT. 1950 - MAR. 1952 | |

5

Date Sat Oct 21-22, 1950 Observer {GR / GW} — Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle Intl |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17816 | HD 214434 | 22 33.0 | 25 55 | I-12 | E103aO | 008 | +14.1 | 21 42 | 22 42 | 1 | H 1 48 |
| 17817 | HD 1996 | 00 19.1 | 25 5.1 | " | " | " | 14.1 | 22 45 | 23 37 | 2 | H 0 57 |

Dome Temp. 53°F

Focus 12.940

Dome Temp.

Transparency Conditions Some cloud then good.

about 150 visitors. Showed 4 with 74" ℄ with 5", 4 + ℄ with 4" (about 22 00 raw #1 emerge from disk of 4)

| Reading Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| 22 42 | W 1 48 | 26 11 | 1 | 8.76 | $K_0$ | $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ | | good |
| 23 39 | W 0 57 | 26 08 | 1 | 8.69 | $G_5$ | $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ | Clouds at 23 33 | good |
| | Focus test | | | OTB | | 3/2 | | |

| | MC | SC | M.T.W. | STW | |
|---|---|---|---|---|---|
| Oct. 23 | -33.0 | +24.8 | +17.0 | +0.1 reset | SW |
| 25 | -33.8 | +24.1 | +08.2 reset | -0.1 | -07 |

**Date** Thurs Oct 26-27, 1950 **Observer** Hd - Gu **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 17818 | HD189796 | 19 56.7 | 29 33 | I-12 | E103a0 | 008 | +7.8 | 18 39 | 19 33 | 3 |
| 17819 | HD 192286 | 20 09.0 | 30 11 | " | " | " | +7.8 | 19 35 | 20 35 | 4 |
| 17820 | AG 13070 | 21 54.7 | 28 10 | " | " | " | +7.7 | 20 37 | 22 07 | 1 |
| 17821 | HD216465 | 22 48.0 | 28 54 | " | " | " | +7.7 | 22 09 | 23 09 | 2 |
| 17822 | HD215956 | 22 43.8 | 28 12 | " | " | " | +7.7 | 23 14 | 00 08 | 3 |
| 17823 | HD 12302 | 01 55.6 | 59 12 | " | " | " | +7.7 | 00 17 | 01 17 | 4 |
| 17824 | HD 14949 | 02 19.5 | 27 13 | " | " | " | +7.7 | 01 30 | 02 24 | 1 |
| 17825 | HD 31782 | 04 53.5 | 25 47 | " | " | " | +7.7 | 02 59 | 03 33 | 2 |
| 17826 | HD 33463 | 05 05.3 | 29 48 | " | " | " | +7.7 | 03 36 | 04 36 | 3 |
| 17827 | HD 38750 | 05 42.9 | 25 36 | " | " | " | +7.7 | 04 41 | 05 51 | 4 |
| | FOCUS TEST | | O. T. B. | | | | | | | |

Dome Temp. 42F

Focus 12.940

Dome Temp. +35°F

Transparency Conditions Good at first



| Ending Time E.S.T. | P. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | | | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 33 | 3 | W 1 36 | 29 41 | 0 | 8.40 | G5 | ½-½-½ | AG | 25 | | good |
| 20 35 | 4 | W 2 26 | 30 20 | 0-1 | 8.75 | G5 | ½-½-½ | " | " | | good |
| 21 07 | 1 | W 2 06 | 28 24 | 0 | 8.89 | G0 | ½-½-½ | * faint. | | Some haze | good |
| 23 09 | 2 | W 2 20 | 29 10 | 0 | 8.49 | G0 | ½-½-½ | " | " | comparison little weak | good |
| 00 08 | 3 | 3 24W | 28 29 | 1-2 | 8.54 | G0 | ½-½-½ | " | " | Stronger wind started at 23:30. Reset. | fair |
| 01 17 | 4 | 1 19W | 59 25 | 0-1 | 8.20 | B3e | ½-½-½ | Be | pro. | | strong |
| 02 24 | 1 | 2 04W | 27 27 | 0-2 | 8.72 | K0 | ½-½-½ | AG | 25 | Clouds from SE. | good |
| 03 33 | 2 | 0 39W | 25 51 | 1-2 | 8.02 | G5 | ½-½-½ | " | " | comparisons too weak | l strong |
| 04 96 | 3 | 1 29W | 29 51 | 1-3 | 8.51 | M0 | ½-½-½ | " | " | | good |
| 05 51 | 4 | 2 06W | 25 38 | 0 | 8.91 | K0 | ½-½-½ | " | " | nine cloud | good |
| | | | | | | | 2/4 | | | focus OK | |
| | | | | | | | | | | 9 PH's loaded, 4 in box. | |

9

**Date** Sun Oct 29/20 **Observer** Bu-L **Julian Day** 3584

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle Incl |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17828 | AD 6286 | 00 58.7 | 26 04 | 7-12" | E103a O | .008 | 15.5 | 23 32 | 00 52 | 1 | 2.05W |
| 17829 | " 18450 | 02 52.9 | 26 22 | " | " | " | 17.5? | 01 00 | 02 20 | 4 | 1.38W |
| 17830 | " 30111 | 04 39.6 | 28 30 | " | " | " | 17.5 | 02 26 | 03 06 | 3 | 1.38W |

Dome Temp. 54

Focus 12-94D

Dome Temp. 750°F

Transparency Conditions Cloudy clearing after 2300 Cirrus haze 10"

ST watch 1m slow approx

| Ending Time E.S.T. | P. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|---|
| 00 52 | 1 | 2 05 W | 26 20 | <0 | 8.61 | G0 | 1-½-½ | AG.25 | Haze | |
| 02 20 | 4 | 1 38 W | 26 34 | 0 | 8.79 | K0 | ½-½-½ | " | " | |
| 03 06 | 3 | 0 38 W | 28 34 | 0 | 8.26 | G5 | ½-½-½ | " | Clouds, star gone at 3.06 | |
| | | | | | | | | | 1 P.H. loaded +4 1 from M | |

Date 9p.m. Oct 30-31/50 Observer L - Gu Julian Day 2,433,585

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 17831 | HD. 192287 | 20 09.0 | 24 56 | I-12½ | E-103a-O | set .008 | 17.2 | 18 14 | 19 30 | 2 |
| 17832 | " 208379 | 21 50.8 | 25 27 | " | " | " | 17.2 | 19 33 | 20 33 | 7 |
| 17833 | " 215956 | 22 43.8 | 28 12 | " | " | " | 17.2 | 20 37 | 21 31 | 4 |
| 17834 | " 218610 | 23 04.3 | 26 23 | " | " | " | 17.2 | 21 35 | 22 45 | 1 |
| 17835 | " 10296 | 01 35.6 | 27 58 | " | " | " | 17.1 | 22 49 | 23 59 | 2 |
| 17836 | " 10981 | 01 42.8 | 30 17 | " | " | " | +17.0 | 00 01 | 01 01 | 3 |
| 17837 | " 14629 | 02 16.6 | 25 49 | " | " | " | +17.0 | 01 03 | 02 03 | 4 |
| 17838 | " 21650 | 03 24.6 | 41 25 | " | " | " | +17.0 | 02 08 | 02 28 | 1 |
| 17839 | " 26420 | 04 05.7 | 41 53 | " | " | " | +17.0 | 02 32 | 03 02 | 2 |
| 17840 | " 31293 | 04 49.4 | 30 24 | " | " | " | +16.9 | 03 06 | 03 26 | 3 |
| 17841 | " 39949 | 05 50.8 | 27 18 | " | " | " | +16.9 | 03 29 | 04 29 | 4 |
| 17842 | " 53472 | 07 00.1 | 25 01 | " | " | " | +16.9 | 05 10 | 06 10 | 1 |
| | FOCUS TEST | | O. T. 3. | | | | | | | |

Dome Temp. +60°F

Focus 12.940

Dome Temp. +57°F

Transparency Conditions Fair



| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1 37W | 25 07 | 0 | 8.86 | M3 | ½-½-½ | AG. 25 | |
| 0 57W | 25 42 | 0-1 | 8.64 | G5 | ½-½-½ | " | |
| 1 03W | 28 28 | 1 | 8.54 | G0 | ½-½-½ | " | |
| 1 56W | 26 38 | 1 | 8.83 | K0 | ½-½-½ | " | |
| 0 39W | 28 14 | 1 | 8.85 | K0 | ½-½-½ | " | |
| 1 34W | 30 31 | 0-2 | 8.72 | G5 | ½-½-½ | " | |
| 2 02W | 26 02 | 1-2 | 8.91 | G5 | ½-½-½ | " Should be a Blank Plate void 17037 Blank plate | |
| 1 18W | 41 33 | 0-1 | 7.2 | Bsne | ½-½-½ | Be proj. | |
| 1 11W | 41 58 | 0-1 | 7.6 | Bsnep | ½-½-½ | " " | |
| 0 52W | 30 28 | 0-1 | 7.5 | Aoep | ½-½-½ | " " | |
| — | 27 18 | 1-2 | 8.61 | G5 | ½-½-½ | AG 25 | |
| 1 23W | 24 52 | 1 | 8.29 | K2 | ½-½-½ | " " Final setting to new Comp. | |
| | | | | | 2/4 | Double * finder | |
| | | | | | | 3 pillars loaded, no tare made | |
| | | | | | | Clock wound at 07:00 PM CST | |

Date Tues/Wed, Oct 31-Nov 1, 1950 Observer Gus Julian Day 2,433,596

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle Ind |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17843 A | HD 9984 | 01 32.4 | +25 24 | I-12½ | 103a-O | Set .008 | +13.0 | 23 49 | 01 10 | 2 | |
| | FOCUS TEST O.TB. | | | | | | | | | | |

Dew Temp. +
Form 12
Dew Temp.

Dome Temp. +50°F

Focus 12.990

Dome Temp. +30°F

Transparency Conditions Good at first 14°

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1 57 W | +25 38 | 0-1: | 8.96 | Ko | ½-½-½ 2/4 | AG 25 focus superposed over star spectrum Cloud drifting in from West. 2nd loaded, new box of flies. | |

| | HC | SC | MTW | STW | MW |
|---|---|---|---|---|---|
| Nov. 1 | −36.7 | +26.3 | −24.5$^s$ adv. 1 m. | −0.5$^m$ | −51$^s$ |

Date Wed/Thu, Nov 1/2, 1950 Observer Gu Julian Day 2,933,587

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle Ind |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17893 | HD 9984 | 01 52.4 | +25 24 | I-12½" | 103a-O | Set .008 | +19.1 | 23 15 | 00 31 | 3 | |
| 17894 | " 11069 | 01 97.6 | +25 31 | " | " | " | +19.0 | 00 35 | 01 25 | — | |
| 17895 | " 22963 | 03 31.2 | +25 90 | " | " | " | +19.0 | 01 29 | 02 12 | 1 | |
| 17896 | " 12706 | 04 10.1 | +25 58 | " | " | " | +19.0 | 02 20 | 03 | 2 | |
| | " ~~13216 —F —7.0 +25 03~~ | | | " | " | " | | | | 3 | |
| | FOCUS TEST O.T.E. | | | | | | | | | | |

Dome Temp. 64°F

Focus 12.940

Dome Temp.

Transparency Conditions Fair

16 cm

Unfiltered 24 inch, done through entire night and no moisture present, left shutter open 1 hour before starting.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1 21 W | +25 38 | 0-1 | 6.96 | $K_0$ | ½-½-½ | AG 25 | |
| 2.00 W | +25 37 | 0-1 | 8.32 | $G_5$ | ½-½-½ | " " few cloud passed | |
| 1 03 W | +25 30 | 2 | 7.22 | $G_0$ | ½-½-½ | " " | |
| 1 32 W | +26 04 | 0-1 | 3.6 | B(i)pe | ½-½-½ | Be Prog. | |
| | | | ~~3.75~~ | ~~$G_5$~~ | | AG 25 | |
| | | | | | 3/4 | | |

3 PM Closed, 8 [illegible] in Im.

Sun Nov 5

Clouds early evening, clearing came up at 9.20 with Ba. Generator would not start. Finally located and fixed trouble, with Ba. Poor contact on bus bar behind new fuse block. Now OK. L. Cloudy over at 11.30

Date Mon/Tues Nov 6/7 Observer Ho - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 17847 | AG 11637 | 22 [illegible] | 28° 3[illegible] | [illegible] | [illegible] | [illegible] | +7.2 | 18 33 | 19 45 | 5 |
| 17848 | HD 3565 | 00 33.5 | 44 01 | " | | | +7.8 | 19 58 | 20 35 | 3 |
| 17849 | HD 5049 | 00 47.3 | 46 35 | " | | | +7.9 | 20 44 | 21 25 | 1 |
| 17850 | HD 11095 | 01 44.0 | 43 48 | " | " | " | +7.9 | 21 31 | 22 18 | 2 |
| 17851 | H.D. 16532 ~~H.D. 16833~~ | 02 34.0 ~~02 36.7~~ | +46 35 ~~46 32~~ | " | " | " | +7.9 | 22 31 | 23 11 | 5 |
| 17852 | HD. 17689 | 02 45.2 | 44 28 | " | " | " | +8.0 | 23 21 | 23 55 | - |
| 17853 | HD 22719 | 03 34.1 | 44 36 | " | " | " | +7.9 | 00 05 | 00 39 | 1 |
| 17854 | " 21913 | 03 26.9 | 33 00 | " | " | " | +7.9 | 00 46 | 01 20 | 2 |
| 17855 | " 26399 | 04 05.4 | 15 21 | " | " | " | +7.9 | 01 25 | 01 59 | 5 |
| 17856 | " 30409 | 04 42.3 | 44 03 | " | " | " | +7.8 | 02 04 | 02 38 | 4 |
| 17857 | " 39416 | 05 47.4 | 25 03 | " | " | " | +7.7 | 02 44 | 03 58 | 1 |
| 17858 | " 49365 | 06 43.0 | 28 39 | " | " | " | +7.8 | 04 02 | 05 12 | 2 |
| 17859 | " 69364 | 08 11.6 | 25 08 | " | " | " | +7.7 | 05 18 | 05 40 | 3 |

Dome Temp. 76°

Focus 12.9 40

Dome Temp. 38°

Transparency Conditions Fair

18

Clouds cleared off at sunset. - high winds.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 00 11m E | 29 48 | 0 | 8.63 | K5 | ½-½-½ | Lft star of pair windy + image jumping around. | |
| 01 15 E | 44 23 | 0 | 7.9 | A0 | ½-½-½ | K.A.S. - Observer concluded that clocks ± 1950 pos^ns (There are no 1950.0's before 0 hours @ 23h) | |
| 00 38 E | 46 52 | 0 | 7.9 | A0 | ½-½-½ | | |
| 00 45 E | 44 04 | 0 | 8.0 | A0 | ½-½-½ | Less wind. K.A. prog. RA. read 2h 39.9m | |
| 00 41 E | 46 47 | 0 | ~~7.9~~ 9.5 | A0 | ½-½-½ | K A2 - Field? Looked like A0, so decided that 5 klicks, after 2 clocks. | |
| | 44 43 | 0 - | 7.72 | K0 | ½-½-½ | K.A. Prog. - Field O.K. | |
| 0 13 E | 44 46 | 0-1 | 8.0 | A0 | ½-½-½ | KA. 23 | |
| 0 36 W | 33 11 | 1 | 7.92 | F2 | ½-½-½ | " 47 | |
| 0 36 W | 15 30 | 1 | 7.8 | A0 | ½-½-½ | " 72 | |
| 0 38 W | 44 10 | 1 | 8.0 | A0 | ½-½-½ | " 24 | |
| 0 54 W | 25 03 | 1 | 8.75 | G5 | ½-½-½ | A.G. 25 | |
| 1 12 W | 28 35 | 1 | 8.75 | G5 | ½-½-½ | " | |
| | 24 58 | 1 | 8.35 | K0 | ½-½ | " Clouds star gone at 0540 | |
| | | | | | | | |
| | | | | | | 1 P.H. Lamod + 8 1 or M | |
| | | | | | | | |

Date Fri Nov 10/11/50 Observer Bu. Julian Day 3596

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 17860 | HD 5007 | 00 47.0 | 25 14 | D-12" | | | | | | |

Dome Temp. 3
Focus
Dome Temp.
Hour Angle End

Dome Temp. 34

Focus

Dome Temp.

Transparency Conditions Variable cloud, 20
gradually clearing over
head. The clouded over
again

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | | 3.48 | KO | | | |
| | | | | | | About 30 students from Slaus. | |
| | | | | | | Gu showed 74" & Tupelo | |
| | | | | | | unit 4" | |

Date Sat NOV 11-12, 1950 Observer HdL Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| 17860 | HD 188259 | 19 49.2 | 26 15 | I-12 | E103aO | 008 | +2.6 | 18 01 | 19 01 | 4 |
| 17861 | HD 204711 | 21 25.4 | 25 22 | " | " | " | +2.6 | 19 05 | 21 05 | 1 |
| 17862 | HD 214023 | 22 30.4 | 30 17 | " | " | " | +2.3 | 21 08 | 22 08 | 2 |
| 17863 | HD 5007 | 00 47.0 | 25 14 | " | " | " | +2.2 | 22 12 | 23 12 | 3 |
| 17864 | HD 11130 | 01 44.4 | 29 00 | " | " | " | +2.2 | 23 15 | 00 15 | 4 |
| 17865 | " 21913 | 03 26.9 | 33 00 | " | " | " | +2.1 | 00 27 | 01 11 | 1 |

Dome Temp. 32 F
Focus 12.940
Dome Temp.

Transparency Conditions Good at first

Hydro Conversion to 60 v completed yesterday

| Beginning Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| 19 01 | W 2 15 | 26 22 | 0 | 8.57 | K0 | 1 - ½ ½ | Spotter not available | f. |
| 21 15 | W 2 43 | 25 35 | 0 | 8.77 | K2 | ½ - ½ - ½ | Clouds most of Time | |
| 22 09 | W 2 41 | 30 35 | 0 | 8.40 | K2 | ½ - ½ - ½ | " " " " | |
| 23 12 | W 1 07 | 25 29 | 0 | 8.48 | K0 | ½ - ½ - ½ | Some haze | |
| 00 15 | 1 33 W | 29 13 | 0-1 | 8.54 | G5 | ½ - ½ - ½ | | |
| 01 11 | 0 47 W | 33 10 | 0-1 | 7.92 | F2 | ½ - ½ - ½ | K.A. 47 Hazy clouds. | |

3 PHo Direct Plates needed
Hm M

Sid Watch corr + 0.9

Date Sun Nov 12/13 S.D. Observer Ba Julian Day 3598

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle Ind |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17866. | HD 213177 | 22 24.5 | 29 18. | 10-12" | F 18.0 | .008 | +1.8 | 1924 | 2044 | | |
| 17867 | 213025 | 22 23.5 | 26 31 | " | " | " | 1.8 | 2046 | 2106 | | |
| 17868 | 3081 | 00 25.9 | 31 05 | " | " | " | 1.8 | 2115 | 2146 | | |

Dome Temp. 32

Focus 1.5.940

Dome Temp. ...

Transparency Conditions Clouds gradually clearing after sunset. Some haze.

No Spotter

24

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 0128W | 29 33 | 0 | 8.07 | K0 | 1-1-1 | A-G, Scattered cirrus. | |
| | 0152W | 26 46 | K0 | 7.27 | K0 | 1-1-1 | " Transparency improved * Crystal 14 F | |
| | 0024W | 31 22 | 0 | 8.0 | F2 | 1-1-1 | KA 44 Hazy. Very hazy by 21h | |
| | | | | | | | 4 P.H. Hor M | |

| | | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|---|
| Nov. | 13 | -42.0 s | +28.3 s | -02.2 s reset (adv. 1m). | +0.3 m | +15 reset |

Spotter now in operation - L

**Date** Tues Nov 14/15, 1950 **Observer** Wm. Cu. **Julian Day** 2 43 36 00

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SIT | | | | |
| 17 869 | HD 202 365 | 21 10.2 | +27 45 | 1.12 | E103a-O | ONE | +5.0 | 18 00 | 19 10 | 1 |
| 17 870 | HD 212 567 | 22 20.2 | +28 11 | " | " | " | 5.0 | 19 15 | 20 [illegible] | 1 |
| 17 871 | ~~AG +13 821~~ HD 217351 | 22 ~~54.8~~ 55.0 | +29 ~~33~~ 32 | " | " | " | 5.0 | 20 30 | 21 50 | 2 |
| 17 872 | HD 10766 | 01 40.2 | +25 54 | " | " | " | 5.0 | 21 56 | 23 11 | 1 |
| 17 873 | HD 11120 | 01 44.3 | +25 15 | " | " | " | 5.0 | 23 21 | 00 35 | 1 |
| 17 874 | HD 20579 | 03 13.6 | +27 11 | " | " | " | 5.0 | 00 39 | 01 22 | 2 |
| 17 875 | HD 22280 | 03 30.1 | +29 90 | " | " | " | 5.0 | 01 36 | 02 16 | 2 |
| 17 876 | CP Orionis | 06 01.0 | +17 93 | " | " | " | 5.0 | 02 30 | 04 30 | 4 |
| | FOCUS TEST | 0.7.5 | | | | | | | | |

Dome Temp. + 38°F
Focus 12.940
Dome Temp. + 36°F

Transparency Conditions Some cirrus & haze

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1W 14 | +27 57 | 0+(?) | 8.47 | K0 | ½-½-½ | AG 25 Is ins* [illegible] [illegible] mirror [illegible] | |
| 1W 19 | +28 24 | 0+ | 8.70 | K0 | ½-½-½ | AG 25 Mirror is AUTOMATIC, this* identical | |
| 2W 09 | +29 43 | 0+ | ~~8.72~~ 8.4 | ~~G5~~ A2 | ½-½-½ | AG 25 Guiding very erratic | |
| 0W 50 | +26 11 | 1- | 8.84 | G5 | ½-½-½ | AG 25 More haze | |
| 2 0W | +25 10 | 1-2 | 8.93 | G5 | ½-½-½ | AG 25 | |
| 1 23W | +27 31 | 1 | 7.8 | A0 | ½-½-½ | K.A. +7 | |
| 2 02W | +29 49 | 0 | 7.76 | A0 | ½-½-½ | " " | |
| | +17 42 | 0 | 10.0 | | ½-½ | Ba Stars gone at 03:45 [illegible] | |

[illegible] cent[illegible]
[illegible] finished, [illegible]
[illegible] like.
Water [illegible] a little [illegible] in the shutter.

**Date** Friday, Nov. 7/18, 1952 **Observer** Wm - L **Julian Day** 243 3603

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SET | | | | | |
| 17 877 | AG 955 | 01 40.9 | +25 03 | 1 12 L | E 103a O | 208 | +3.7°C | 21 16 | 22 46 | 4 | 0h 32 |
| 17 878 | AG 1143 | 02 01.9 | +25 09 | " | " | " | +2.7 | 22 50 | 00 20 | 3 | 1 44 W |
| 17879 | H.D. 25977 | 04 01.7 | 13 16 | " | " | | +2.6 | 00 28 | 01 14 | 2 | 0 39 W |
| 17880 | " 33122 | 05 03.0 | 14 59 | " | " | " | +2.7 | 01 48 | 02 28 | 1 | 0 55 W |
| 17881 | " 37404 | 05 33.3 | 45 39 | " | " | " | +2.6 | 02 34 | 03 14 | 2 | 1 07 W |
| 17882 | " 48591 | 06 30.1 | 29 28 | " | " | " | +2.7 | 03 21 | 04 19 | 3 | 1 07 W |
| 17883 | " 63495 | 07 44.1 | 28 59 | " | " | " | +2.6 | 04 24 | 06 04 | 4 | 1 41 W |
| | Focus Set | | | | | O T 3 | | | | | |

Dome Temp. +33° F

Focus 12.940

Dome Temp. [illegible] Note- [illegible] at 6 mid!

Transparency Conditions Good

Cloudy & Sunny, clearing at 12h. 32 miles gusts (~60) at 12h. N&W - showers 1.39", 24 in 5". Trouble with light relay, fixed by L.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 0h 32m W | +20° 18' | 0' | 8.28 | G0 | ½-1-½ | AG25 } N.B. Temp's. I think the first AG25 } may have been recorded 1° higher than it was. | |
| 1 44 W | +29° 24' | 0 | 8.93 | G5 | ½-1-½ | | |
| 0 39 W | 13 24 | 0 | 7.9 | A3 | ½-½-½ | KA. 72 Clouds. | |
| 0 52 W | 15 02 | 0 | 7.99 | A0 | ½-½-½ | " 73 | |
| 1 07 W | 45 41 | 0 | 8.0 | A3 | ½-½-½ | " 25 | |
| 1 07 W | 29 24 | 0-1 | 8.64 | G0 | ½-½-½ | AG. 25 | |
| 1 47 W | 28 51 | 0-1 | 8.98 | G5 | ½-½-½ | " Hazy | |
| | | | | | 3/2 | | |

4 PM's landed + 4 on M

**Date** Sat Nov 18/92-5.D **Observer** Ba – Cu **Julian Day** 3604

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| 17884 | HD 3081 | 00 28.9 | 31 05 | " | F 10 | " | 5.0 | 20 46 | 2142 | 1 |
| | HD 5334 | 00 50.1 | 46 36 | | | | | | | 2 |
| 17885 | HD 8247 | 01 22.1 | 31 26 | " | " | " | 4.9 | 2212 | 2317 | 2 |
| 17886 | HD 17412 | 02 42.5 | 46 50 | " | " | " | 4.8 | 2318 | 2354 | 3 |
| 17887 | HD 22260 | 03 30.1 | 29 47 | " | " | " | 4.6 | 2358 | 0058 | 4 |
| 17888 | HD ~~26194~~ 26015 | 04 ~~03.1~~ 02.3 | 17 04 | " | " | " | 4.8 | 0104 | 0126 | 1 |
| 17889 | HD 27532 | 04 15.7 | 29 25 | " | " | " | 4.6 | 0129 | | 2 |
| | 1000 TEST O.T. E. | | | | | | | | | |

Dome Temp.
Focus.
Dome Temp.

Hour Angle End

Dome Temp. 38

Focus 12.925 Try focus at 12.925

Dome Temp.

Transparency Conditions Cloud & haze cloudy 30 clearing 2

Dome motor contacts stuck closed.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 0C43W | 31 22 | 0-1 | 8.00 | F2 | 1-1-1 | KA 44 Est. Est. at ½ mag. [illegible] | |
| | | | | 8.0 | A0 | | KA 20 Haze & cloud close in | |
| | 0120W | 31 42 | 0 | 7.96 | K0 | 1-1-1 | KA 45 gain wind 2130. Clock drive | |
| | 0C43W | 47 02 | 1-1 | 7.72 | K0 | 1-1-1 | KA22 = [illegible] numbered 177885 | |
| | 0 57W | 29 48 | 0 | ~~7.7~~ 7.13 | ~~A0~~ K0 | 1-1-1 | KA47 wrong star taken | |
| | 0 53W | 17 11 | 0 | ~~7.60~~ | ~~A0~~ | 1-1-1 | KA72 check the star in [illegible] | |
| | | 29 31 | | 7.7 | A2 | 1- | KA93 * Haze taken + cloud [illegible] | |

See next page.

Date Tues Nov 21-22, 1950 Observer Hd- Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17890 | HD 205376 | 21 29 4 | 25 28 | I-12 | E103a0 | 008 | | 18 09 | | 3 | |

Dome Temp. +2
Focus 12.92
Dome Temp.

Dome Temp. +28 F
Focus 12.925
Dome Temp.

Transparency Conditions

Plate holder #2 found in spectrograph.
~~Loaded in 2nd Kodak here~~ no plate in it.
Probably left in spectrograph by Baglow, who had student II Pass on Sem. night Nov. 19

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | | 868 | Ko | 1- | Clouded up almost immediately | |

Date Wed Nov 22-23/50 Observer L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17890 | HD. 210685 | 22 07.0 | 26 46 | I-12½ | E-103aO | set .008 | -0.1 | 18 35 | 20 17 | 4 | 1.5 W |
| 17891 | " 2343 | 00 22.2 | 30 21 | " | " | " | -0.2 | 20 40 | 22 00 | 1 | 1.64 W |
| | Focus Test | | | | | O.T. 13. | | | | | |

Dome Temp. +28°F

Focus 12.915

Dome Temp.

Transparency Conditions Fair

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| 21 17 | 1 56 W | 27 00 | 01 | 8.82 | $K_0$ | ½-½-½ | A.G. .25 Light haze toward end. | f |
| 22 00 | 1 24 W | 30 38 | 0-1 | 8.90 | G5 | ½-½-½ -3/2 | " Haze clouds star gone at 22.00 | f |

| | MC | SC | MTW | STW |
|---|---|---|---|---|
| Lcc.1 | -44.2 | +06.2 | -04.6 | -0.4 |

**Date** Fri Dec 1/2, 1950 **Observer** Wm- **Julian Day** 2433617

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.B | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 892 | HD 215 274 | 22 38.9 | +29 39 | I-12 | [illegible] | SET .008 | -0.2C | 18 05 | 19 25 | 2 | 1h 08 |
| 17 893 | HD 218 610 Focus Test | 23 04.3 | +26 23 | " | " | " | -0.3 | 19 30 | 21 [illegible] | 3 | [illegible] |

Dome Temp. [illegible]
Focus [illegible]
Dome Temp.

Dome Temp. +27°F

Focus 12.915

Dome Temp.

Transparency Conditions Some cirrus @ starting from

Found dome unchained

36

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1W08 | +29 49 | 10 | 849 | G5 | ½-1-½ | AG25 Some cirrus - near-misses | uk |
| 2W28 | +26 38 | 0 | 853 | K0 | ½-1-½ | AG25 2000 → very faint [illegible] PHPS 10" alt sure | uk |
| | O.T.B | | | | 3/2 | 1PH + 12 H on M | |

Monday/Tues Dec 4/5: After focusing on bright star at 21:30, found water dripping from front of tube, some landing on finder lens. Could not find the source, am afraid mirror might get splattered. Transparency fair to good

Temp. +28°F

Date Sat Dec 9-10, 1950 Observer Hal - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| 17874 | HD 21820 | 03 26 0 | +29 12 | I-12 | E103a0 | 008 | -.8 | 23 17 | 00 31 | 4 |

Dome Temp. +28

Focus 12.915

Dome Temp.

Transparency Conditions Good at times

Clouding after moonset. Clearing 21 00 - 22 00.
Some trouble turning dome. Jammed by wind?

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1 58 W | 29 22 | 0-1 | 8.78 | Ko | ½-1-½ | Hazy and light clouds. | fair |

39

Date Sun Dec 10-11, 1950 Observer HH - Gu Julian Day 2,433,626

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. (water slow) +0 1/2 min. | Ending Time E.S.T. | P.E | Hour Angle End | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17895 | MWC 63 HD 20017 | 3 07.9 | 48 19 | I-12 | E103a0 | .008 | -0.7 | 22 56 | 23 42 | 1 | W 3½ | 4 |
| 17896 | HD 21982 | 3 44.3 | 63 30 | " | " | " | -0.7 | 23 47 | 0 40 | 2 | 1½ | 1 |
| | EDENS TEST | | 0. T. ½. | | | | | | | | | |

Dome Temp. +28 F
Focus 12.215
Dome Temp. −29 F

Transparency Conditions Good

Clearing from zion with haze at first.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 1 31 | 48 30 | 0 | 7.9 | B2e | ½ 1 ½ | Be prog | good |
| 1 51 W | 45 21 | 0 | 6.1 | B3e | ½ 1 ½ | " " Cent at 00:0 | work |
| | | | | | | 4/2 star gone at 00:5, variable | |
| | | | | | | and again at 00:35. | |
| | | | | | | 2 Plates loaded | |
| | | | | | | MC SC MTW STW EW | |
| | | | | | | Dec. 11 −41.'2 −20.'3 −30.'0 +0.'4 −06.' | |
| | | | | | | reset | |

Date Fri May 15/50 Observer [illegible] Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| ~~17877~~ | HD 3081 | 00 28.7 | 31 05 | I-12" | E 103a-O | .008 | | | | |
| ~~17907~~ | HD 9860 | 01 31.2 | 46 27 | I-12" | E 103a-O | .008 | | | | |

Dome Temp. ...
Focus ...
Dome Temp. ...

Hour Angle End | D...

Dome Temp. 25

Focus

Dome Temp.

Transparency Conditions Clouds clearing after sunset

hazy

42

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | | 8.00 FZ | | | Clouded over at set of * 1930 | |
| | | | | 7.7 | 40 | | Stars visible to 2040 | |
| | | | | | | | Broken cloud continuing to roll up | |
| | | | | | | | 2115 – quite thick up. | |
| | | | | | | | Clear intervals with intermittent cloud | |

Date Sun Dec 17/10 AD Observer Bm Julian Day 3633

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P |
|---|---|---|---|---|---|---|---|---|---|---|
| 17917 | HD 3681 | 0 28.9 | 31 25 | 1-12" | R 103a D | .006 | -1.5 | 19 26 | 17 40 | 3 |
| 17918 | HD 9224 | 0 25.7 | 28 54 | " | " | " | -1.5 | 19 45 | 21 03 | 4 |
| | | | | | | | | | | 1 |
| | Focus at | OTB | 24 1 | 4/3 | | | | | | |

Dome Temp 25
Dome Temp 2
Hour Angle End

Dome Temp. 25

Focus 12.915

Dome Temp. 22

Transparency Conditions Clear Hazy



| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 0035 | W 31 28 | 0 | 800 | F2 | 1-1-1 | KA 44 Cyg Double Band 1855 - 1915 | much too strong |
| | | | | 753 | G0 | 1-1 | KA 45 " " 2000 - 2050 | burnt out |
| | | | | | | | Followed by heavy fog exposure | |
| | | | | | | | 4 PH. Tests | centre 5 cm |
| | | | | | | | exposures for outside test too & too long | ? ? |

V

Date Monday Dec 18-19/50 Observer L- Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17899 | A.G. 13850 | 22 57.9 | 28 40 | I-12½ | E-103Ao | set .008 | -4.8 | 18 10 | 19 40 | 1 | E 11W |
| 17900 | HD 10296 | 01 35.6 | 27 58 | " | " | " | -4.8 | 19 46 | 21 45 | 2 | 1 39W |

Dome Temp. 1
Focus 12
Dome Temp.

Dome Temp. +18°F

Focus 12.915

Dome Temp.

Transparency Conditions light haze

Delay in starting. Strongren lost 1 min since checked earlier in the day!

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 2 11W | 28 57 | O | 8.83 | Go | ½-½-½ | A.G.25 [21.00 | fine |
| 1 39W | 28 13 | O | 8.85 | Ko | ½ ½ ½ | " Clouds star gone from 20.30 to more clouds. | fine |

Date Thurs Wed Dec 20-21, 1950 Observer Hd - GZ Julian Day 243 3636

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17901 | MWC93 HD 312793 | 4 49.4 | 30 24 | I 12 | E103aD | 008 | +15.7 | 23 39 | 0 12 | 3 | 0 59 |

Dome Temp. +2/
Focus 12.9
Dome Temp. +2

Dome Temp. +21

Focus 12.915

Dome Temp. +20

Transparency Conditions poor

alternately clear + cloudy conditions

| Ending Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| 0 12 | | 0 5 9 | 30 29 | 0 | 7.5 | Hoep | ½-½-½ | Be. Too cloudy to start next exposure. 1 PH Locked | |

Date Tues. Dec. 26-27, 1950 Observer Hd - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17902 | HD 3333 | 00 31.2 | 29 18 | J-12 | E103aO | 008 | -12.0 | 18 37 | 19 45 | 4 | W 1 1. |
| 17903 | HD AG 966 | 01 40.9 | 29 03 | " | " | " | -12.0 | 19 48 | 21 15 | 1 | W 1 8. |
| 17904 | HD 14679 | 02 15.2 | 30 14 | " | " | " | -12.0 | 21 21 | 22 01 | 2 | W 2 4 |
| 17905 | HD 32855-6 | 05 00.9 | 26 52 | " | " | " | -12.0 | 23 05 | 00 05 | 3 | L 03 W |
| 17906 | CP ORIONIS | 1960 06 01.5 | 17 43 | " | " | .016 | -12.3 | 00 18 | 02 18 | 4 | 2 18 W |
| 17907 | H.D. 70402 | 08 16.7 | 27 51 | " | " | .008 | -12.3 | 02 29 | 03 41 | 1 | 1 24 W |
| 17908 | " 85428 | 09 46.6 | 25 36 | " | " | " | -12.3 | 03 46 | 04 36 | 2 | 1 10 W |
| 17909 | " 95188 | 10 59.4 | 25 50 | " | " | " | -12.3 | 05 01 | 05 45 | 3 | 0 50 W |
| | Grow Test | | | | O.T.B. | | | | | | |

Dome Temp. +
Focus 12.9
Dome Temp. +1

Dome Temp. +7 F
Focus 12.915
Dome Temp. +1° F

Transparency Conditions Good - Thin haze 50

S. G. going last morning. Delayed.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 1 11 | 29 35 | 0 | 8.44 | G5 | ½-1-½ | Spotter freezing up — useless. | good |
| W 1 35 | 29 18 | 0 | 8.88 | G0 | ½-1-½ | | v. good |
| W 2 43 | 30 25 | 0 | 8.89 | G5 | ½-1-½ | | good |
| 1 03 W | 26 56 | 0 | 8.51 | A-G | ½-1-½ | | v. good |
| 2 18 W | 17 47 | 0 | 11.? | ? | ¼-¼-¼ | Ba's star some light clouds. | poor |
| 1 24 W | 27 41 | 0 | 8.65 | G5 | ½-½-½ | A.G. 25 | v. good |
| 1 10 W | 25 20 | 0 | 8.63 | K2 | ½-½-½ | " | good |
| 0 50 W | 25 33 | 0 | 8.75 | G5 | ½-½-½ | Clouds, star gone at 5.45 | v. good |
| | | | | | 3/2 | | |

4 PHo graded + 12
14 on M

Plates 17903 - 17907 very close [illegible]

Date Wed 27/28 Dec 50 Observer [illegible] Julian Day [illegible]

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| 17910 | HD 3031 | 00 28.9 | 31 05 | [illegible] | [illegible] | [illegible] | [illegible] | 1745 | 1829 | |
| 17911 | 5394 | 00 50.2 | 46 21 | " | " | " | [illegible] | 1834 | F16 | |
| 17912 | 7871 | 01 15.5 | 32 59 | " | " | " | [illegible] | 1919 | 2011 | |

Dome Temp. [illegible]
Focus [illegible]
Dome Temp. [illegible]

Hour Angle End

Dome Temp. 72

Focus 12.915

Dome Temp.

Transparency Conditions Good Clouds Clearing at Sunset

Spots still not [illegible] back across or off inner plate.

52

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 0002W | 31 21 27 | <0 | 8.00 | F2 | 1-1-1 | KA 4a Telescope stop, cut today | |
| 0029W | 46 37 | 0 | 7.80 | A0 | 1-1-1 | KA 20 some haze | |
| 0100W | 33 13 | 0 | 8.0 | A5 | 1-1-1 | KA 45 Increasing haze and high clouds in dec Exp interrupted 1940-2055 Increasing haze and wind at close. No plate batteries loaded as seeing spots will be faint to them. | |

Date Thurs. Dec. 28-29/50 Observer L-G Julian Day 2433.644

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 17913 | H.D. 4312 | 00 40.5 | 25 38 | I-12½ | E-103a-O | .008 | -5.0 | 18 23 | 19 13 | 1 |
| 17914 | " 10766 | 01 40.2 | 25 54 | " | " | " | -5.0 | 19 19 | 20 13 | 3 |
| 17915 | " 14479 | 02 15.2 | 30 14 | " | " | " | -5.1 | 20 18 | 21 16 | 2 |
| 17916 | " 20911 | 03 12.9 | 32 19 | " | " | " | -5.1 | 21 [illegible] | 21 [illegible] | 4 |
| 17917 | " E7525 | 04 15.6 | 18 02 | " | " | " | -5.1 | 22 04 | 22 30 | 1 |
| 17918 | " 39416 | 05 47.4 | 25 03 | " | " | " | -5.1 | 22 37 | [illegible] | 2 |
| 17919 | " 45824 | 06 24.6 | 26 43 | " | " | " | -5.1 | 23 17 | 00 31 | 3 |
| 17920 | " 47836 | 06 33.5 | 27 11 | " | " | " | -5.1 | 00 37 | 01 19 | 4 |
| 17921 | " 58878 | 07 22.5 | 27 45 | " | " | " | -5.1 | 01 24 | 01 [illegible] | 1 |
| 17922 | " 67402 | 08 02.7 | 27 47 | " | " | " | -5.1 | 01 54 | 02 [illegible] | 2 |
| 17923 | " 74348 | 08 38.4 | 28 50 | " | " | " | -5.1 | 02 [illegible] | 03 11 | 3 |
| 17924 | " 83695 | 09 31.0 | 28 18 | " | " | " | -5.1 | 03 [illegible] | 03 [illegible] | 4 |
| 17925 | " 97557 | 10 15 = | 29 27 | " | " | " | -5.1 | 04 06 | 04 41 | 1 |
| 17926 | " 94834 | 10 51.8 | 24 41 | " | " | " | -5.2 | 04 48 | 05 [illegible] | 2 |
| 17927 | " 102446 | 11 44.6 | 28 41 | " | " | " | -5.2 | 05 [illegible] | 06 [illegible] | 3 |
| | Focus Test | | E.T.S. | | | | | | | |

Dome Temp. +22°F
Focus 12.915
Dome Temp. +20°F

Transparency Conditions Fair

Some clouds at sunset



| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 0 39 W | 25 55 | 0-1 | 8.49 | K2 | ½-½-½ | AG. 25 | fair |
| 0 40 W | 26 10 | 1-2 | 8.84 | G5 | ½-½-½ | " | |
| 1 08 W | 30 27 | 1-2 | 8.87 | G5 | ½-½-½ | " | |
| 0 52 W | 32 30 | 1-2 | 7.9 | A0 | ½-½-½ | KA 47 | |
| 0 22 W | 18 07 | 1-2 | 7.9 | A2 | ½-½-½ | " 72 | |
| 0 10 E | 25 04 | 1-2 | 8.75 | G5 | ½-½-½ | AG. E5 | |
| 0 14 W | 26 40 | 2 | 8.72 | K0 | ½-½-½ | " " Fine cloud formation | |
| 0 51 W | 27 09 | 1 | 8.22 | K0 | ½-½-½ | " " | |
| 0 35 W | 27 39 | 1 | 7.69 | K0 | ½-½-½ | " " | |
| 0 27 W | 27 37 | 0-1 | 7.72 | K0 | ½-½-½ | " | |
| 0 48 W | 28 38 | 0 | 5.21 | G0 | ½-½-½ | " " | |
| 0 39 W | 27 57 | 0-1 | 8.05 | K0 | ½-½-½ | " " | |
| 0 37 W | 29 11 | 0-1 | 7.95 | K0 | ½-½-½ | " " | |
| 0 55 W | 24 24 | 0 | 8.16 | K0 | ½-½-½ | " " Bright moon | |
| 0 55 W | 28 22 | 0 | 8.05 | K0 | ½-½-½ | " " Cloud along ecliptic | |
| | | | | | 3/2 | 1 P.H. bright spot in the sky to [illegible] | |

Date Fri Dec 29-30, 1950 Observer Hd - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17928 | HD249 | 00 02.2 | 25 54 | I-12 | E103a0 | 008 | -3.0 | 18 01 | 18 41 | 4 | +4 |
| 17929 | HD 3165 | 00 35.3 | 39 40 | " | " | " | -3.0 | 18 45 | 19 21 | 1 | +5 |
| 17930 | HD 7954 | 01 32.4 | 25 24 | " | " | " | -3.0 | 19 24 | 20 34 | 2 | +11 |
| 17931 | HD 14624 | 02 16.6 | 25 49 | " | " | " | -3.0 | 20 37 | 21 53 | 3 | +14½ |
| 17932 | HD 22428 | 03 31.4 | 44 28 | " | " | " | -3.0 | 21 59 | 22 41 | 4 | +20 |
| 17933 | HD 22441 | 03 31.5 | 44 28 | " | " | " | -3.0 | 22 43 | 23 23 | 1 | +20 |
| 17934 | HD 36071 | 05 24.6 | 31 13 | " | " | " | | 23 30 | 00 06 | 2 | |

Dome Temp. +26 F

Focus 12.905 (changed)

Dome Temp.

Dec. 29

Transparency Conditions Hazy

| MC | SC | MTW | STW | SW |
|---|---|---|---|---|
| -37.2 | -46.8 | -0C.0 | +0.5 | -52° |

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 49 | 26 12 | 2 | 8.49 | K0 | ½-½-½ | | |
| W 56 | 39 56 | 3 | 8.52 | K5 | ½-½-½ | Sta. Vel. | |
| W 1 11 | 25 40 | 2 | 8.96 | K0 | ½-½-½ | Seems very faint. | |
| W 1 48 | 26 04 | 2 | 8.91 | G5 | ½-½-½ | Hazy | |
| W 1 20 | 44 39 | 2 | 8.0 | A0 | ½-1 | Hz clouds. | |
| W 2 02 | 44 39 | 2 | 8.0 | A0 | ½-½-½ | Hz " | |
| | 31 14 | 2 | 7.5 | A0 | ½ | clouds. Slide not shown sky filling in orbit | |

2 PH's loaded plates marked.

**Date** Sat-Sun. Dec. 30, 31 **Observer** — GZ **Julian Day** 243 3646

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 17934 | H.D. 65583 | 07 54.3 | +29 31 | 1-12½' | E 103-0 | 0.008 | -23 | 01 52 | | |

Dome Temp. +25°F

Focus 12.905

Dome Temp.

Transparency Conditions Hazy

Delayed in starting by dec. setting.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | ~~29 22~~ | ~~0~~ | ~~7.50~~ | ~~G.y~~ | ~~½~~ | Standard Velocity. Th'd closed at 0200. New bay of plates in dome | |

**Date** Sun. Dec 31/1 1951 **Observer** Wm - GZ **Julian Day** 2 433 647.00

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. | Hour Angle Rad |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SET | | | | | |
| 17934 | HD 22403 | 03h 31m2 | +25 40' | 1.12½ | [1030 O | 008 | -2.0C | 20 51 | 21 41 | 4 | |
| 17935 | HD 26162 | 04 03.3 | +19 21 | " | " | " | -2.0 | 21 45 | 21 59 | 1 | |
| 17936 | HD 28236 | 04 22.2 | +15 49 | " | " | " | -2.0 | 22 06 | 22 56 | 2 | |
| 17937 | HD 36071 | 05 29.0 | +31 13 | " | " | " | -2.0 | 23 01 | 00 11 | 3 | |
| 17938 | HD 51101 | 05 50.9 | +24 47 | " | " | " | -2.0 | 00 53 | 01 25 | 1 | |
| | Fink Test O.I.B. | | | | | | | | | | |

Dome Temp. +24° F
Focus 12.905
Dome Temp.

Transparency Conditions Poor

O'cast at starting time, variable cloud etc. until at 2000

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 0W 29 | +25° 51′ | 0 | 7.92 | G0 | ½-½-½ | AG 25 b.n | v.g. |
| 0W 16 | +19° 23′ | 0 | 6.25 | K1 | ½-½-½ | Vel Std | v.g. |
| 0W 53 | +16 14 | 0 | 3.0 | M2 | ½-½-½ | NO DEC as read. But star v. faint ??? Is a very red star ? Perhaps slightly below 3.0 | burnt out |
| 1 07W | +31 15 | 0 | 7.8 | A0 | ½-½-½ | KA 49 | fair |
| 0 54W | +24 43 | 0 | 7.73 | G5 | ½-½-½ 3/2 | AG 25 | g.s.t. |

Waited for cloud to pass. Still cloudy. Finished a P.T. was then put to bed.

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| 1951 Jan. 5 | -34.0 | -61.0 | -01.8 | +0.2 | +25 |
| | | | Watches reset | | |
| Jan 8 | -32.2 | -70.2 | +2.0 | +0.1 | +1.0 |

Date Monday Jan 8/9 1951 Observer HP Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| 17937 | HD29587 | 04h 34m 5 | +41° 5' 7 | I-12½ | F 1030 | 006 | | | — | |
| 17939 | HD 30467 | 04 42.9 | 26 50 | I-12½ | F 1030 | 008 | -7.8°C | 19h 53m | 21h 28m | 2 |
| 17940 | HD 45824 | 06 24.6 | 26 43 | " | " | " | -7.8°C | 21h 42m | 22 13 | 3 |

Dome Temp. +16°

Focus 12·905

Dome Temp.

Transparency Conditions

Clouds dispersing at approx. 19h 15m

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | | 7·85 | | | (No hydrogen field) | |
| | | 0 | 8·56 | $G_0$ | $\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$ | AC 25 | Very good |
| | | 0 | 8·72 | $K_0$ | $\frac{1}{2}$-1 | AC 25 Cut off by clouds. (This plate is #1 1974) Spotter didn't work - so 3 plate-holders left unloaded. | |

Date Fri Jan 12-13/51 Observer L- Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 1 min slow | | | |
| 17941 | HD. 9714 | 01 30.0 | 27 46 | I-12½ | E-103a-O | Set .008 | -0.4 | 18 07 | 18 49 | 4 | |
| 17942 | " 15747 | 02 26.7 | 12 14 | " | " | " | -0.4 | 18 54 | 19 34 | 1 | |
| 17943 | " 17456 | 02 42.9 | 46 44 | " | " | " | -0.5 | 19 46 | 20 26 | 2 | |
| ~~17944~~ | ~~" 20873~~ | ~~03 16.8~~ | ~~29 27~~ | " | " | " | -0.5 | 20 33 | | 3 | |
| 17944 | " 25707 | 03 59.6 | 13 02 | " | " | " | -0.5 | 20 58 | 21 38 | 5 | |
| 17945 | " 34636 | 05 13.9 | 15 41 | " | " | " | -0.6 | 21 43 | 22 33 | 4 | |
| 17946 | " 35410 | 05 19.4 | -00 59 | " | " | " | -0.6 | 22 42 | 22 47 | 1 | |
| 17947 | " 46159 | 06 26.7 | 29 28 | " | " | " | -0.6 | 22 53 | 00 20 | 2 | |
| 17948 | AG 4c44 | 07 28.2 | 28 57 | " | " | " | -0.6 | 00 23 | 01 53 | 3 | |
| 17949 | HD 74725 | 08 41.8 | 2 82 | " | " | " | -0.6 | 01 55 | 03 50 | 4 | |
| 17950 | 94833 | 10 51.8 | 25 49 | | | | -0.6 | 03 59 | 05 34 | 1 | |
| 17951 | 101906 | 11 38.6 | 24 16 | | | | -0.6 | 0540 | 06 17 | 2 | |

Dome Temp. +28 °F

Focus 12.905

Dome Temp. 16

Transparency Conditions Good



Spotter working.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 0 25 W | 28 01 | 0 | 7.78 | $G_5$ | ½-½-½ | KA. 45 | fine |
| 0 15 W | 12 28 | 0 | 7.7 | $A_2$ | ½-½-½ | " 70 | wh |
| 0 50 W | 46 56 | 0 | 7.9 | $A_2$ | ½-½-½ | " 22 | fine |
| ~~———~~ | ~~———~~ | 0 | ~~7.9~~ | ~~$A_2$~~ | ½- | " 47 seeing bad could not keep images apart on slit. 3 following | |
| 0 46 W | 13 10 | 0 | 7.7 | $A_2$ | ½-½-½ | " 72 set 9 | good |
| 0 27 W | 15 45 | 0 | 7.9 | $A_0$ | ½-½-½ | " 73 | l wh |
| 0 35 W | -00 57 | 0 | 5.93 | $K_0$ | 1-1 | Standard velocity star | fine |
| 0 04 W | 29 25 | 0 | 8.70 | $K_0$ | ½-½-½ | AG 25 | f |
| 0 31 W | 28 51 | 0 | 8.8 | G0 | 1-1-1 | " | fine |
| 0 21 5 W | 28 10 | 0 | 8.7 | G0 | 1-1-1 | " | stray |
| 0 40 W | 25 24 | 0 | 8.4 | G0 | 1-1-1 | " | |
| 0 52 W | 24 16 | 0 | 8.6 | K1 | 1-1-1 | " | fine |
| | | | | | | 2 ☐ + 4 | |

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| Jan. 15 | $-28^s.3$ | $-81^s.1$ | $-00^s.3$ | $+0^m.4$ | $+05^s$ |
| | | | | reset | |

Date Wed Jan 17/1951 Observer [illegible] Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17952 | HD 45800 | 06 24.5 | 25 57 | 5-12" | [illegible] | .009 | +6.0 | 2230 | 0015 | 3 | 1 17W |
| 17953 | " 69312 | 08 11.3 | 27 21 | " | " | " | +0.9 | 00 22 | 01 38 | 4 | 0 54W |
| 17954 | " 86801 | 09 55.8 | 29 02 | " | " | " | +0.9 | 02 39 | 04 27 | 1 | 1 56W |
| 17955 | " 106857 | 12 12.3 | 27 17 | " | " | " | +0.9 | 04 39 | 06 01 | 2 | 4 17W |
| | Plate Lost | | | | 0 F 13 | | | | | | |

Dome Temp. 30

Focus 12.905

Dome Temp.

Transparency Conditions Good

Cloud & Haze clearing away late in evening

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1 17 W | 25 55 | <0 | 8.71 | K0 | 1-1-½ | AG 25 | |
| 0 54 W | 27 12 | 0 | 8.68 | Ke | ½-½-½ | " clouds. | |
| 1 58 W | 28 47 | 0 | 8.93 | G0 | ½-½-½ | " clearing later, haze more clouds | |
| 1 17 W | 28 59 | 0 | 8.84 | G0 | ½-½-½ | " Haze, star gone at 06 01 | |
| | | | | | 3/2 | OK | |
| | | | | | | 2 PHs loaded, plates rested | |

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| Jan. 18 | -26.0$^s$ | -88.1$^s$ | -32.0$^s$ | -0.2$^m$ | -09$^s$ |
| | | | adv. 1 min | | |
| 22 | -25$^s$ | -97.7 | +03$^s$ | +0.1$^m$ | +10 |
| | | | | watches reset | |

1951 Jan. 24-25

Date Wednesday Jan. 24 Observer Ho Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 17956 | MD 47+30 | 06h 35m 0 | +29° 49' | I-12½ | [illegible] | .008 | -1.4 | 21h 11m | 22h 10m | 3 |

Dome Temp. 21°
Focus 12.795
Dome Temp.

Hour Angle End

Dome Temp. 21°

Focus 12·905

Dome Temp.

Transparency Conditions

Clouds dispersing at 20h + as forecast was fr. snow. I waited a little before opening up.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| 2h 10m 3 | 00 28E | 29° 45' | 0 | 7·91 | K0 | ½ ½ ½ | AG25 21h 19m first cloud — followed by 21h 30m 50 many more | 2h |
| | | | | | | | 2 PH's loaded — spotter remid supplied for PH's | |
| | | | | | | | 10 plates in box in spotting room. | |

1951 Jan. 26-27

**Date** Fri 26/27 Jan **Observer** Bu **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.J. | Hour Angle End | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17957 | AG 1143 | 02 01.9 | 29 09 | 1-12" | E 103a-O | .003 | -4.6 | 18 02 | 19 32 | | +0131 | |
| 17958 | HD 22428 | 03 31.4 | 11 26 | " | " | " | -4.0 | 19 38 | 20 55 EST | | — | |
| | 29587 | 04 34.5 | 41 57 | | | | | | | | | |
| | 30409 | 04 42.3 | 44 03 | | | | | | | | | |

Dome Temp. 21

Focus 12.905

Dome Temp. 16

Transparency Conditions GOOD



| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W0131 | 29 24 | <0 | 8.93 | G5 | 1-1-1 | AG Light Cloud ~~to end~~ end | wk |
| | — | 4438 | <0 | 8.0 | A0 | 1-1-1 | KA23 Considered L Cloud during exposure spots a g | wk |
| | | | | 7.85 | G2 | | ~~Standard~~ Velocity Stn | |
| | | | | 8.0 | A0 | | KA24 | |
| | | | | | | | Close down 1 2030 | |

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| Jan. 29 | -20.0 | -1m52.3s wt 0.2 removed | +02.0s reset | +0m.1 | -39s |

71

30-31

Date Tues Jan 23-30, 1951 Observer HH-L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.J. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17959 | HD 17382 | 02 42.2 | 26 40 | I-12 | E1030 | .008 | -9.6 | 19 12 | 20 28 | 2 | 4202 |
| 17960 | HD 29587 | 04 34.5 | 41 57 | " | " | " | -9.8 | 20 40 | 21 10 | 3 | 4152 |
| 17961 | HD 31782 | 04 53.5 | 25 47 | " | " | " | -9.5 | 21 15 | 21 55 | 4 | 4119 |
| 17962 | HD 39949 | 05 50.8 | 27 18 | " | " | " | -9.7 | 21 59 | 22 39 | 1 | 4156 |
| 17963 | HD 60235 | 07 45.4 | 28 42 | " | " | " | -9.7 | 23 35 | 01 30 | | 2 19W |
| | Focus Test | | | | 0 T03 | | | | | | |

Dome Temp. +6 F

Focus

Dome Temp. +2 °F

2.

Transparency Conditions

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 2 02 | 26 54 | 0! | 8.33 | $K_0$ | 1-1-1 | | |
| W 0 52 | 42 00 | 0 | 7.85 | $G_2$ | 1-1-1 | Star thick | |
| W 1 19 | 25 50 | 0 | 8.02 | $G_5$ | 1-1-1 | | |
| E 1 56 | 27 [illegible] | 0 | 8.61 | $G_5$ | 1-1-1 | Clouds about 22 55, more thin at 23 00 | |
| 2 19 W | 28 36 | 0 | 8.60 | $K_2$ | 1-½-½ | Hazy, clouds 00.50 - 01.10, star | |
| | | | | | 3-2 | good at 01.30. | |
| | | | | | | Snowing at 01.45 closed. | |

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| Feb. 2 | −17.1 | $-1^m 59.^s6$ | $+24.^s5$ | $+0.^m5$ | $-59^s$ |

Date Fri Feb 2-3, 1951 Observer Hd - Gw Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 17964 | HD19666 | 03 09.9 | 15 37 | I-12 | Eastman 608 | | -9.7 | 18 55 | 19 45 | 4 |
| 17965 | HD27350 | 04 13.9 | 14 27 | " | " | " | -9.9 | 19 49 | 20 45 | 1 |
| 17966 | HD42275 | 06 04.7 | 13 51 | " | " | " | -9.9 | 20 59 | 21 39 | 2 |
| 17967 | HD46160 | 06 26.7 | 27 54 | " | " | " | -9.9 | 21 04 | 23 06 | 3 |
| 17968 | HD [illegible] | 07 [illegible] | 27 21 | " | " | " | -9.9 | 23 39 | 00 [illegible] | 4 |
| 17969 | HD [illegible] | [illegible] | [illegible] | " | " | " | -10.0 | 00 21 | [illegible] | 1 |
| 17970 | HD [illegible] | [illegible] | [illegible] | " | " | " | -10.1 | 01 36 | [illegible] | 2 |
| 17971 | HD 94966 | 10 52.7 | +24 55 | " | " | " | [illegible] | 02 36 | [illegible] | 1 |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 2 |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 2 |
| [illegible] | Focus Test | [illegible] | [illegible] | | | | | | | |

Dome Temp. +6F

Focus 12.905

Dome Temp. −5°F

Transparency Conditions Good

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 1 10 | 15 47 | 0 | 8.0 | $A_0$ | 1-1-1 | KH | Wk |
| W 1 01 | 14 33 | 0 | 7.9 | $A_2$ | 1-1-1 | Seems ft. KH | Too wk |
| W 0 05 | 15 54 | 0 | 8.0 | ~~G5~~ $F_2$ | 1-1-1 | KH | Lwk |
| W 1 09 | 27 57 | 0 | 8.67 | K5 | 1-1-1 | AG v windy - hard guiding | Wk |
| 1 12W | 27 12 | 0 | 8.37 | $K_0$ | 1-1-1 | temp -9°F | poor |
| 1 48W | 25 29 | 0 | 8.58 | $K_2$ | 1-1-1 | AG 25 very long | vwk |
| 2 19W | 24 32 | -0 | 8.00 | $K_0$ | 1-1-1 | " " Spots still wk | Lwk |
| 1 40W | 24 16 | -0 | 8.15 ~~8.11~~ | K0 | 1-1-1 | " " temp -5° | Lwk |
| 2 23W | 23 01 | 0 | 8.18 | $F_0$ | 1-1-1 | " " Lwk by many stars | Too wk |
| 1 [illegible] | 18 01 | 0 | 8.03 | $K_0$ | 1-1-1 | " " very wk exposure long | |
| | | | | | | wk but fairly good | |
| | | | | | | 2 tube in use | |
| | | | | | | 1 PM. Limited | |

Date Sat Feb 24 Observer Ku - Cole Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17773 | NP 2051 | 03 12.9 | 32 19 | " | " | " | -11.0 | 18 55 | 19 25 | 4 | |
| 17774 | 21229 | 03 20.4 | 31 29 | " | " | " | -11.0 | 19 53 | 20 17 | 1 | 01:41 |
| 17775 | 30491 | 04 42.3 | 44 53 | " | " | " | -11.0 | 20 [illegible] | 23 56 | 2 | 03:41 |
| 17776 | CR ORION | [illegible] | -17 42 | | | | -11.0 | 21 [illegible] | 23 [illegible] | 3 | 00:41 |
| 17777 | NP 65585 | 04 59.8 | 29 31 | " | " | " | -11.0 | 23 45 | 24 17 | 4 | 01:41 |
| 17778 | 71029 | 08 30.1 | 25 45 | " | " | " | -11.0 | 0 [illegible] | 0 [illegible] | 1 | 2:41 |
| | FOCUS TEST | | O.T.B. | | | | | | | | |

Dome Temp. +12

Focus 12.905

Dome Temp. +9°F

Transparency Conditions Clouds clearing at sunset, Hazy 76

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| - | 32 10 | 0 | 7.9 | A0 | 1-1-1 | KA 97 Looked at HB 2075 [illegible] | poor |
| 0134W | 31 38 | 1 | 7.92 | A2 | 1+1 | " Haijar | poor |
| 0057W | 44 09 | 2 | 8.0 | A0 | 1-1-1 | KA 24 Overexposed to [illegible] | fair |
| 0208W | 17 43 | 1-2 | 11 | A? | 1-1-1 | Eclipsing binary | poor |
| 0036W | 29 22 | 2 | 7.10 | G7 | 1-1-1 | Set 8 Standard Field (Other setting; exp. started with wide slit.) | fair |
| 2.5W | 28 31 | 0-2 | 8.90 | K0 | 1-1-1 | Hazy [illegible] HB 59 [illegible] Hazy but [illegible] | poor |
| | | | | | | Wed. Feb 7 - Cleared and long enough to open up. Then [illegible] | |

Date Thurs, Feb 8/9, 1951 Observer W.M. Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17979 | HD 27 350 | 04 13.9 | +14° 27′ | I-12½ | [103a D | SET 008 | -13.1 | 19 55 | 20 55 | 1 | 1h 35 |
| 17980 | HD 42 275 | 06 04.7 | +13 51 | " | " | " | -13.1 | 21 02 | 22 02 | 1 | 0h 11½ |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 0°F

Focus 12.905

Dome Temp.

Transparency Conditions Good Fair

Started late.; Iron found dark. Had to burn out.
Everything sluggish; Slit micrometer did not work
right.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | | | | | Not sure of starting time; might have been 13 50 ? | |
| 1^w 35 | +14 35 | 0! | 7·9 | A2 | 1-1-1 | KA72 Worst seeing I've seen | |
| 0^w 51 | +13 30 | 0! | 7·8 | F2 | 1-1-1 | KA74 Some thin cloud<br>Snow; dome stuck while<br>still open ~2" | |

| | WC | SC | WTW | STW | SW |
|---|---|---|---|---|---|
| Feb. 9 | -17° | -2^m 06^s.0 | -20^m | +0^m.1 | 0 |

Date Fri Feb 9-10, 1951 Observer Hd-L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. |
|---|---|---|---|---|---|---|---|---|---|---|
| 17981 | HD 20873 | 03 16.8 | 29 27 | I-12 | E103aO | 008 | | 18 55 | | 1 |
| 17981 | HD 21913 | 03 26.9 | 33 00 | I-12 | E103aO | 008 | -11.9 | [illegible] | 20 13 | 1 |
| 17982 | HD 29852 | 04 37.4 | 44 34 | " | " | " | -11.9 | 20 16 | 21 01 | 2 |
| 17983 | HD 37736 | 05 35.7 | 44 48 | " | " | " | -12.0 | 21 10 | 21 54 | 3 |
| 17984 | HD 49500 | 06 47.2 | 25 36 | " | " | " | -12.0 | 22 08 | 23 10 | 4 |
| 17985 | HD 64533 | 07 50.7 | 26 22 | " | " | " | -12.0 | 23 14 | 00 44 | 1 |
| 17986 | HD 85946 | 09 50.2 | 27 19 | " | " | " | -12.1 | 00 50 | 01 52 | 2 |
| | Focus Test | | | OTE | | | | | | |

Dome Temp. +4 F
Focus 12.905
Dome Temp. -2°F

Transparency Conditions Good

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | | 7.4 | $A_2$ | 1- | Set 5 - Zone 4, not monitored | KH |
| W 1 41 | 33 12 | 0 | 7.92 | $F_2$ | 1-1-1 | Set 9 | KH |
| W 1 24 | 44 41 | 0 | 7.91 | F5 | 1-1-1 | | KH |
| W 1 14 | 44 50 | 0 | 7.73 | $A_2$ | 1-1-1 | | KH |
| W 1 23 | 25 32 | 0 | 8.51 | $K_2$ | 1-1-1 | | AG |
| 1 50 W | 26 14 | 0 | 8.62 | $K_2$ | 1-1-½ | | AG |
| 1 01 W | 27 05 | 0 | 8.51 | $K_0$ | ½-½-½ 3-2 | Sky slowly thickening Light Snow at 01.50 closed up. | AG |
| | | | | | | 3 Pg = loaded Plates needed. | |

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| Feb. 12 | -18.5 | -2m 16.3 | -04.0 | -0m.6 | +04s |

1951 Feb. 14-15

**Date** Wednesday, ~~February~~ 14th **Observer** Ho – Cam **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| | C P Orionis | | | | | | | | | |
| 17987 | ~~U Monocerotis~~ | 06h 1m 11s | +17° 43.1' | I 12 | E 103a-c | 016 | -5.0 | 18 [illegible] | [illegible] | 2 |
| 17988 | HD 66.[illegible] | 07h 57.7m | +02 36' | | | 008 | -5.0 | [illegible] | [illegible] | 3 |
| 17989 | HD [illegible] | 10h 19.5m | [illegible] 07 | | | | -5.0 | [illegible] | [illegible] | 4 |
| 17990 | HD 91148 | 10 26.3 | 29 36 | " | " | " | -5.2 | [illegible] | [illegible] | 1 |
| 17991 | HD [illegible] | 10 59.7 | 29 44 | " | " | | [illegible] | [illegible] | [illegible] | 2 |
| [illegible] | HD [illegible] | 11 [illegible] | [illegible] | " | " | " | -5.5 | [illegible] | [illegible] | 3 |
| [illegible] | HD [illegible] | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | 4 |
| | [illegible] | [illegible] | [illegible] | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 17° F

Focus 12.905

Dome Temp. 10° F

Transparency Conditions fair to poor.



| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 3h 15m W | 17° 43' | 0 0 — 0 | 11.3 | ? | 1-1-1 | * (Kapteyn) — very faint — v. rich — (last 19h 45m 19h 55m) | tr. rich |
| 0h 15m E | +12° 29' | 0 — 1 | 5.52 | K3 | 1-1-1 | Fld. Std. — Hazy little extra tone — a trace hot for Std. Fld. | |
| 0 20 E | +24° 53' | 0-1 | 8.39 | G-5 | 1-1-1 | A = 25 | fair |
| — | 24° 30' | 0-1 | 8.14 | G5 | 1-1-1 | " | 1.5 |
| 1 52 W | 29° 15' | 1-2 | 9.84 | K0 | 1-1-1 | " | |
| 2 22 W | 28° 01' | 0 | 8.70 | F0 | 1-1-1 | " | good |
| 2 [illegible] W | [illegible] | 1-2 | 8.71 | F0 | 1-1-1 | " | [illegible] |
| | | | | | | centre too weak | |
| | | | | | | 2 th - bad! | |

Date Thursday Feb 15-16 1951 Observer Hd-L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 17994 | HD 25777 | 04 01.7 | 13 16 | I-12 | E1030 | .08 | -4.2 | 18 57 | 19 17 | 4 |
| 17995 | HD 34945 | 05 16.0 | 12 34 | " | " | " | -4.3 | 20 00 | 20 50 | 1 |
| 17996 | HD 44131 | 06 15.0 | -02 54 | " | " | " | -4.4 | 20 53 | 21 05 | 2 |
| 17997 | HD 45824 | 06 24.6 | 26 43 | " | " | " | -4.5 | 21 08 | 22 13 | 3 |
| 17998 | HD 65924 | 07 52.1 | 22 58 | " | " | " | -4.6 | 22 41 | 00 11 | 4 |
| 17999 | 85340 | 09 32.6 | 28 25 | " | " | " | -5.0 | 00 18 | 01 02 | 1 |
| 18000 | 90442 | 10 21.4 | 27 10 | " | " | " | -4.8 | 01 06 | 02 42 | 2 |
| 18001 ~~18000~~ | 106947 | 12 12.8 | 26 35 | " | " | " | -4.8 | 02 47 | | 3 |
| | Foc Test | | | | | | 0 TP | | | |

Dome Temp. +22 F

Focus 12.3.5

Dome Temp.

Transparency Conditions OK

| Ending Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | W 1 16 | 13 25 | 0 | 7.9 | A3 | 1-1-1 | 4.4 | |
| | | W 55 | 12 37 | 0 | 7.4 | A3 | 1-1-1 | <1- | |
| | | W 11 | -3 55 | 0 | 6.5 | M1 | 1-1-1 | 37h Use | |
| | | W 134 | 26 41 | 0 | 7.2 | K0 | 1-1-1 | +G had forgotten = Turn on Spec. heat. | |
| | | 136 W | 26 47 | 0 | 7.4 | K0 | 1-1-½ | 1+G | |
| | | 0 51 W | 28 12 | 0 | 7.0 | G0 | ½-½-½ | AG 25 | |
| | | E 43 W | 26 53 | 0 | 8.6 | G5 | ½-½-½ | " " | |
| | | | | 0 | 8.1 | G2 | ½ | Dome shuts off star | |
| | | | | | | | 3/2 | star from 03.10 | |
| | | | | | | | | 7 PM- Loads + B | |

Date Thu Feb 23-24, 1951 Observer HA- Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18002 | HD 26162 | 04 03.3 | 19 21 | I-12 | E03-0 | 008 | +0.2 | 1906 | 19 16 | 1 |
| 18003 | HD 38261 | 05 39.4 | 25 04 | " | " | " | +0.3 | 19 20 | 20 30 | 2 |
| 18004 | PP Ori | 06 1.2 | 17 43 | " | " | .016 | +0.2 | 20 10 | 23 10 | 3 |
| 18005 | HD 72559 | 08 25.5 | 25 47 | " | " | 008 | +0.2 | 23 06 | 01 [illegible] | 4 |
| 18006 | HD 96460 | 09 52.9 | 27 59 | " | " | " | +0.0 | 00 35 | 01 [illegible] | 1 |
| 18007 | HD 98550 | 10 31.9 | 25 36 | " | " | " | 0.0 | 01 52 | 03 30 | 2 |
| 18008 | HD 114076 | 11 59.1 | 25 12 | " | " | " | 0.0 | 03 14 | 04 [illegible] | 3 |
| 18009 | HD 125320 | 14 13.6 | 27 15 | " | " | " | 0.0 | 04 33 | 05 53 | 4 |
| | FOCUS TEST | A. T. B. | | | | | | | | |

Dome Temp. +27 F
Focus 12.895
Dome Temp. +20°F

Transparency Conditions Good

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 1 05 | 19 29 | 0 | 6.45 | K, | 1-1-1 | Std Vel | |
| W 0 43 | 25 09 | 0 | 8.58 | Ko | 1-1-1 | AG | |
| W 2 52 | 17 43 | 0 | 9.? | ? | 1-1-0 | Edge of overall Bracketed field - | |
| 1.95W | 27 36 | 0-1 | [illegible] | F5 | 1-1-1 | AG | |
| 1.46W | 27 44 | 0 | 8.15 | G2 | 1-1-1 | AG 25 Shake on head # | |
| 2.29W | 25 20 | 0-1 | 9.8 | G5 | 1-1-1 | " " | |
| 2.28 W | 2? 08 | 0-1 | 8.? | G? | 1-1-1 | " " | |
| 1.35 W | 27 [illegible] | 0-1 | 8.? | G5 | 1-1-1 | " " | |
| | | | | | | 3 Pho Bracketed, near Low recorded. | |
| | | | | | | MC BC MTW STW SW | |
| | | | | | | Feb. 26 -02.2 -1m 46.2s -14.0s +0.1m -03.0 | |

Date Sun 4/5 11hr 5i Observer Ba - Ge Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18010 | HD 14949 | 02 19.5 | -27 1 | 8-12" | [illegible] | .008 | +2.5 | 1916 | 2051 | 4 | W 442 |
| 18011 | HD 44615 | 06, 17.6 | 29 01 | " | " | " | +2.5 | 2055 | 2225 | 2 | W 235 |
| 18012 | AC 3823 | 07 07.4 | 28 44 | " | " | " | +2.5 | 2229 | 2359 | 1 | |
| 18013 | HD 77729 | 09 09.2 | 26 39 | " | " | " | +2.2 | 0005 | 0135 | 3 | |
| 18014 | 95725 | 10 09.8 | 28 29 | " | " | " | +2.1 | 0140 | 0314 | 5 | |
| 18015 | 107132 | 11 15.0 | 27 24 | " | " | " | +2.1 | 0318 | 0448 | 4 | |
| | FOCUS TEST | — | D. J. B. | | | | | | | | |

Dome Temp. 3
Focus 12
Dome Temp.

Dome Temp. 34

Focus 12.595

Dome Temp. +21°

Transparency Conditions Good

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W 0 44 2 | 27 27 | 0 | 8.72 | K0 | 1-1-1 | | |
| | W 0 23 5 | 29 00 | 1 | 8.39 | G0 | 1-1-1 | | |
| | 3 23 W | 28 40 | 1 | 8.91 | G0 | 1-1-1 | | |
| | 3 33 W | 26 20 | 0 | 8.58 | K2 | 1-1-1 | | |
| | 1 35 W | 33 12 | 0-2 | 7.78 | K0 | 1-1-1 | | |
| | 1 15 W | 25 26 | 0 | 8.53 | K2 | 1-1-1 | | |

Date Sept Oct 5-6/51 Observer L - [illegible] Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18016 | H.D. 46366 | 06 27.7 | 27 07 | I 12½ | E 103a-O | 5 cr .005 | +6.2 | 19 30 | 20 24 | V | 0 21W |
| 18017 | " 56513 | 07 12.2 | 27 28 | " | " | " | +5.2 | 20 27 | 21 11 | 2 | 0 30W |
| 18018 | " 67709 | 08 04.2 | 27 23 | " | " | " | +5.2 | 21 15 | 22 39 | 3 | 0 1W |

Dome Temp. + 37°F

Focus 12.895

Dome Temp. 31°F

Transparency Conditions Fair

90

Delayed start because of some light haze.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 0 27 W | 27 04 | 0 | 8.53 | K0 | ½-½-½ | A.G.25 | Good |
| | 0 30 W | 27 21 | 0 | 8.26 | G5 | ½-½-½ | " " | ✓ good |
| | 1 07 W | 27 13 | 0 | 8.36 | K0 | ½-½-½ | " " haze clouds. | fine |
| | | | | | | | 2 plts loaded, 1 in box | |
| | | | | | | | Filter in at 2:30 a.m. | |

Date Tuesday Mean 4/5, 1927 Observer — Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.J. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18014 | HD 45263 | 10 555 | 27 90 | [illegible] | [illegible] | 5cd .006 | [illegible] | [illegible] | | 4 | |
| | [illegible] | [illegible] | [illegible] | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. +38°F

Focus 12.895

Dome Temp.

Transparency Conditions Fine

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | | 7.23 | 90 | 1 | AG 25 | |

Date Wed - Thurs, March 1/2 Observer Ho Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.P | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18019 | HD 66111 | 07h 57m | 02° 32' | 5.12 | F103a0 | .008 | +4.9° | 2h 59 | 22h 35 ~~29~~ | 1 | 01 18 |

Dome Temp. +33°F

Focus 12·895

Dome Temp. +33°F

Transparency Conditions Very Poor

Clouds, clearing at 21·30 – slight snow.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 01 18W | 02° 28′ | 00 | 5·52 | K3 | 1-1-1 | Std. Vel. interrupted by clouds, slides + Tail (Exposure time guess) | too weak |
| | | | | | | | (3.p.h is loaded, box of plates with them) | |

Date Fri Sat Mar 9-10/51 Observer HH - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18020 | HD 58382 | 07 20.3 | 31 49 | I-12 | E103a0 | 008 | -3.3 | 21 01 | 21 43 | 2 | E 10° |
| 18021 | HD 69364 | 08 13.9 | 27 11 | " | " | " | -3.2 | 21 46 | 23 10 | 3 | E 14° |
| 18022 | HD 84470 | 09 40.2 | 27 32 | " | " | " | -3.3 | 23 15 | 00 15 | 4 | 1 E |
| 18023 | " 99947 | 11 24.8 | 25 27 | " | " | " | -3.4 | 00 23 | 01 43 | 3 | 10 W |
| 18024 | " 111842 | 12 47.0 | 26 13 | " | " | " | -3.4 | 01 49 | 03 07 | 1 | 10 W |
| 18025 | " 123782 | 14 04.6 | 49 56 | " | " | " | -3.4 | 03 15 | 03 25 | 2 | 0 |
| 18026 | AG. 6105 | 14 00.3 | 26 19 | " | " | " | -3.4 | 03 30 | 05 00 | 4 | 14 |
| 18027 | HD 152038 | 16 45.9 | 26 23 | " | " | " | -3.4 | 05 11 | 05 50 | V | 0 |
| | Standard | | | | E103a0 | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 20 F
Focus 12.895
Dome Temp. + 17°F

Transparency Conditions Good

Cloudy at first. Then 8 meteors from Walkerton H.S. showed G w 5" and a * mth 74"

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 109 | 31 43 | 0 | 7.93 | G5 | 1-1-1 | K.A. | |
| W 142 | 27 00 | 0 | 5.55 | K0 | 1-1-1 | AB | |
| 121 W | 27 16 | 0 | 8.42 | K0 | 1-1-½ | " | |
| 106 W | 25 08 | 0 | 8.72 | K0 | ½-½-½ | " | |
| 109 W | 25 56 | 0-1 | 8.81 | K5 | ½-½-½ | " | |
| 010 W | 49 50 | 0-1 | 6.79 | M2 | ½-½-½ | Standard Polaris etc. | |
| 149 W | 26 03 | 0-1 | 8.70 | K0 | ½-½-½ | AG 25 | |
| 004 W | 26 17 | 0-1 | 7.99 | K0 | ½-½-½ | " | |
| | | | | | ½ | | |
| | | | | | | 3 PHo tested + 4. H. M. | |

Date Sat Sun Mon 10½/31 Observer HL – Cu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15028 | HD 46159 | 06 26.7 | 29 28 | ~~I-12~~ ~~008~~ | 103aO | 008 | -1.5 | 19 37 | 20 57 | 2 | 1 1: |
| 15029 | HD 63138 | 07 42.3 | 29 01 | " | " | " | -1.8 | 21 01 | 21 35 | 3 | 1 4: |
| 15030 | HD 63016 | 07 41.7 | 28 55 | " | " | " | -1.3 | 21 37 | 22 27 | 4 | 1 3: |
| 15031 | HD 77948 | 09 00.4 | 26 31 | " | " | " | -1.8 | 22 31 | 23 51 | 1 | 1 4: |
| 15032 | HD 91164 | 10 26.4 | 25 14 | " | " | " | -2.3 | 23 53 | 01 10 | 2 | 1: |
| 15033 | HD 102909 | 11 42.1 | 29 59 | " | " | " | -3.0 | 01 12 | 02 31 | 3 | 1: |
| 15034 | HD 133582 | 15 16.3 | 33 17 | " | " | " | -3.0 | 02 [illegible] | [illegible] | 4 | 1: |
| | FOCUS-TEST | D.T. 2. | | | | | | | | | |

Dome Temp. 7
Focus 12.2
Dome Temp.

Dome Temp. +24°F

Focus 12.895

Dome Temp. +16°F

Transparency Conditions Good

Delayed by SW wiring wrong. Rect. correction now 0.0

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W 1 20 | 29 27 | 0 | 8.10 | K0 | 1-1-1 | AG Prog. | good |
| | 1043 | 28 51 | 0 | 7.78 | G5 | 1-1-1 | " | fair |
| | W 1 36 | 28 46 | 0-1 | 8.12 | G5 | 1-1-1 | " Becoming v windy | poor |
| | W 1 41 | 26 20 | 0 | 8.63 | K0 | 1-1-1 | " | poor |
| | 1345 | 24 58 | 0- | 8.43 | K0 | 1-1-1 | " Probably misreading temp earlier | poor |
| | 2 | 3 | 0 | 8.78 | K0 | 1-1-1 | " maybe v. windy prog. | poor |
| | 2 4 | 1 53 | 0 | 8.77 | K0 | 1-1-1 | " | poor |
| | | | | | | | -1/2 temp too low. | |
| | | | | | | | up to 3 hrs. | |
| | | | | | | | Mar. 12 MC +07s SC -17.6 SW -05.8 | |

Date Mar. Mar 12-13 1957 Observer L - Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 18035 | H.D. 46532 | 06 28.9 | 25 00 | I-12½ | E-103-0 | set .008 | +5.4 | 19 18 | 20 38 | 1 |
| 18036 | " 69866 | 08 13.9 | 27 11 | " | " | " | 15.4 | 21 15 | 22 33 | 2 |
| 18037 | " 83820 | 09 35.9 | 29 20 | " | " | " | +5.3 | 22 38 | 00 18 | 3 |
| 18038 | " 91348 | 10 27.7 | 28 18 | " | " | " | +5.0 | 00 21 | 01 39 | 4 |
| 18039 | " 105330 | 11 57.4 | 25 00 | " | " | " | +5.0 | 01 44 | 03 30 | 1 |
| 18040 | " 121367 | 13 38.7 | 25 05 | " | " | " | +5.0 | 03 04 | 04 48 | 2 |
| 18041 | " 127312 | 14 38.4 | 24 52 | " | " | " | +5.0 | 04 34 | 06 18 | 3 |
| | FOCUS TEST @ T B | | | | | | | | | |

Dome Temp. +38°F

Focus 12.895

Dome Temp.

Transparency Conditions Good

About 45 Visitors Dr Heard's night class. Showed moon with 74", Saturn with 5", various 4½" on lawn.

| Ending Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | 108 W | 24 58 | 0 | 8.61 | K2 | ½-½-½ | A.G. 25 | |
| | | 117 W | 27 01 | 0 | 8.65 | K0 | ½ ½ ½ | " " | |
| | | 1 91 W | 29 04 | 0-1 | 8.55 | G5 | ½-½-½ | " " | |
| | | 2 17 W | 28 02 | 0-1 | 8.77 | G5 | ½-½-½ | " " | |
| | | 2 [illegible] | 24 42 | 0 | 8.77 | K0 | ½-½- | " " | |
| | | 1 [illegible] | 29 41 | 0-1 | 8.75 | K0 | ½-½-½ | " " | |
| | | 0 [illegible] | [illegible] | 0-1 | 8.91 | K5 | ½-½-½ | " " | |
| | | | | | | | | 9/2 | |
| | | | | | | | | [illegible] | |
| | | | | | | | | MC SC SW | |
| | | | | | | | | Mar. 19 ~ +10s ~ -13s ~ -10s | |

Date Sunday, March 11-12, 1951 Observer H.o - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18042 | HD 89631 | 10h 18m.5 | +32° 13 | I 12½ | E103a0 | 2.30 | -3.0 | 22h 07m | 23h 18m | 4 | |
| 18043 | H.D. 109012 | 12 26.5 | +27 38 | " | " | " | -3.0 | 23 35 | 00 55 | 1 | |
| 18044 | " 115762 | 13 14.2 | 25 08 | " | " | " | -3.1 | 01 00 | 01 35 | 2 | |
| 18045 | " 187386 | 14 26.0 | 25 33 | " | " | " | -3.2 | 02 40 | 03 44 | 3 | |
| 18046 | " 144404 | 16 05.7 | 26 16 | " | " | " | -3.2 | 03 50 | 05 20 | 4 | |
| | Focus Test | | | | 0 1 2 | | | | | | |

Dome Temp. 2[illegible]
Focus [illegible]
Dome Temp.

Dome Temp. 122° F

Focus 12.89.5

Dome Temp.

Transparency Conditions Poor

Clouds, clearing at 21h 1m S.M. stopped. wound + set.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 01h 04m W | 26° 58' | 0 | 8.65 | G0 | ½-½-½ | HG 25 | Bit of high cirrus cloud v good |
| 0 20W | 27 19 | 0 | 8.63 | K0 | ½-½-½ | " | fine |
| 1 14W | 24 52 | 0 | 8.87 | G5 | ½-½-½ | " | fine |
| 1 11W | 25 13 | 0 | 8.27 | G5 | ½-½-½ | " | fine |
| 1 05W | 26 07 | 0 | 8.24 | G5 | ½-½-½ | " | fine |
| | | | | | 3.2 | | |
| | | | | | | 4 PM: Ended + 8 | |
| | | | | | | Hrs. M. | |

Date Mon Mar 26-27/31 Observer L- Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18047 | HD. 62567 | 07 39.5 | 26 14 | I-12½ | E-103a-O | set .008 | 0.0° | 19 52 | 21 18 | 1 | |
| 18048 | " 85440 | 09 46.7 | 28 15 | " | " | " | 0.0° | 21 25 | 22 37 | 2 | |
| 18049 | " 95188 | 10 54.4 | 25 50 | " | " | " | 0.0 | 22 45 | 00 30 | 3 | |
| 18050 | " 104076 | 11 50.1 | 25 12 | " | " | " | 0.0 | 00 34 | 01 14 | 4 | |
| | " 120893 | 13 46.6 | 27 [illegible] | " | " | " | | | | 1 | |
| | FOCUS TEST | | C. T. B. | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. +30°F
Focus 12.895
Dome Temp. +25°F

Transparency Conditions Poor

Bank of light cloud in West at sunset.

| Ending Time E.S.T. | P.P. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 32 W | 26 07 | 0 | 6.85 | K0 | ½-½-½ | A625 | Light haze | |
| | | 0 46 W | 27 59 | 0-1 | 8.40 | K0 | ½-½-½ | " | | |
| | | 1 29 W | 25 32 | 1 | 8.75 | G5 | ½-½-½ | " | | |
| | | 2 13 W | 24 54 | 1-1 | 5.63 | G0 | ½-½-½ | " | very hazy | fair |
| | | | | | 6.25 | K0 | | " | | |
| | | | | | | | | 9/2 | | |
| | | | | | | | | | 9 Phi 2 tracked 4 min bad. | |

| | MC | BC | HTW | STW | SW |
|---|---|---|---|---|---|
| Apr. 2 | +18.2 | -09.9 | 00 | -0.m1 | |

Date Thurs. Apr. 5-6 1951 Observer Hd - Gw Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18051 | HD 46277 | 06 27.4 | 28 03 | I-12 | E 103a-O | 008 | +9.2 | 19 35 | 20 19 | 4 | |
| 18052 | HD 47960 | 06 36.0 | 25 34 | " | " | " | +9.1 | 20 22 | 21 10 | 2 | |
| 18053 | HD 74624 | 08 39.9 | 28 43 | " | " | " | +9.2 | 21 15 | 22 07 | 3 | |
| 18054 | HD 79214 | 09 07.7 | 24 42 | " | " | " | +9.2 | 22 11 | 23 17 | 1 | |
| 18055 | HD 97476 | 11 07.9 | 27 43 | " | " | " | +9.0 | 23 21 | 00 37 | 2 | |
| 18056 | HD 109482 | 12 29.9 | 29 38 | " | " | " | +9.0 | 00 40 | 01 00 | 3 | |
| 18057 | HD 121131 | 13 48.5 | 28 26 | " | " | " | +8.9 | 02 04 | 03 24 | 4 | |
| 18058 | HD 142929 | 15 52.2 | 25 26 | " | " | " | +8.9 | 04 47 | 05 07 | 1 | |
| | FOCUS TEST | | O. T. 13. | | | | | | | | |

Dome Temp. +46 F

Focus 12.845

Dome Temp. +27 F

Transparency Conditions OK

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W224 | 28 02 | 1 | 8.35 | $K_2$ | 1-1-1 | AG 25 | fine |
| | W306 | 25 32 | 2 | 8.65 | $M_0$ | 1-1-1 | " " | v good |
| | W200 | 28 35 | 2-4 | 8.64 | $G_0$ | 1-1-1 | " " | stray |
| | W243 | 24 30 | 1 | 8.75 | $K_0$ | 1-1-1 | " " | fine |
| | 203W | 27 25 | 0 | 8.63 | $K_2$ | 1-1-1 | " " | fine |
| | 205W | 29 20 | 0 | 8.63 | $G_5$ | 1-1-1 | " " | good |
| | 222W | 28 09 | 0 | 8.63 | $K_0$ | 1-1-1 | " " and hazy/wind blowing | fine |
| | 197W | 25 16 | 0-1 | 8.79 | $G_5$ | 1-1-1 | " " | fair wind |
| | | | | | | | 9/2 | |
| | | | | | | | 9 Pkn tested, 9 p.m. | |
| | | | | | | | 2 2. | |
| | | | | | | | R.A. stuck (Amp's) | |

Date Fri. April 6-7 1951 Observer L - Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18059 | H.D. 77694 | 08 59.0 | 25 01 | I-12½ | E-103a-O | set .008 | +13.8 | 20 08 | 21 36 | 1 | |
| 18060 | " 90442 | 10 21.4 | 27 10 | " | " | " | +13.8 | 21 41 | 23 17 | 2 | |
| 18061 | " 107725 | 12 17.6 | 27 09 | " | " | " | +13.8 | 23 21 | 00 51 | 3 | |
| 18062 | " 121149 | 13 49.6 | 28 09 | " | " | " | +13.4 | 00 55 | 02 25 | 4 | |
| 18063 | " 127093 | 14 24.3 | 26 18 | " | " | " | +13.3 | 02 49 | 04 19 | 1 | |
| 18064 | " 149403 | 16 28.3 | 25 04 | " | " | " | +13.2 | 03 51 | 05 21 | 2 | |
| | FOCUS TEST D. T. B. | | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. +50°F
Focus 12.825
Dome Temp. +42°F

Transparency Conditions Hazy at first then good

Delayed start because of cloud banks in South and West at sunset.

| Reading Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 114W | 24 48 | 0 | 8.40 | K0 | ½-½-½ | A.G. 25 | |
| | 133W | 26 54 | 0 | 8.56 | G5 | ½-½-½ | " " | |
| | 112W | 26 53 | 0-1 | 8.93 | Ke | ½-½-½ | " " | |
| | 116W | 27 53 | 0- | 8.53 | G0 | ½-½-½ | " " } meteor, long, explosive, | |
| | 203W | 26 04 | 1-2 | 7.72 | K0 | ½-½-½ | " " } nucleus 15062 | |
| | 118W | 24 57 | 0- | 8.77 | G0 | ½-½-½ | " " | |
| | | | | | | | A/2 | |
| | | | | | | | 2 PN₂ loaded, 4 in tot. | |

Date Sat. April 7/8, 1951 Observer Wm - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E | Hour Angle East |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 065 | HD 100 947 | 11 32.6 | 28 19 | I-124 | E103a-E | 0.03 SHT | 12.0 | 22 30 | 22 [illegible] | | 1 4m |

Dome Temp. 47

Focus 12.895

Dome Temp. 45

Transparency Conditions Some clouds

L & Wm showed about 10% 200 visible
ΔGrm 7.9" h in 5'.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 1 40 W | +28 02 | 0 | 3½ | KD | 1-1-½ | AGK5 Stage reloaded | fine |
| | | | | | | | 4 Per Cent +12 | |

Date Thurs. Apr. 12 1923 Observer H.L. - E.H. Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 18066 | HD 85680 | 09 55.0 | 25 39 | I-12 | E 103a0 | .018 | 4.1-3.7 | 2 39 | 2 41 | 1 |
| 18067 | " 94334 | 10 51.8 | 20 41 | " | " | " | 5.1-4.6 | 2 47 | 2 47 | 2 |
| 18068 | HD 104765 | 11 08.7 | 25 26 | " | " | " | 4.6 | 2 50 | 2 50 | 3 |
| 18069 | HD 113599 | 12 56.7 | 14 51 | " | " | " | 4.5 | 2 53 | 2 53 | 4 |
| 18070 | HD 03 | 13 46.6 | 2 | " | " | " | 4.5 | 2 54 | 2 54 | 1 |
| 18071 | HD 135376 | 15 21.4 | 4 39.9 | " | " | " | 4.8 | 2 57 | 2 57 | 2 |
| 18072 | HD 152786 | 16 47.9 | 2 5 | " | " | " | 4.8 | 2 30 | 2 30 | 3 |
| | ENGULF TEST | O. T. | | | | | | | | |

Dome Temp. +36

Focus 12.845

Dome Temp. +57°F

Transparency Conditions Poor

Rain in early evening.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 1 19 | 28 24 | 2 | 5-26 | $G_0$ | 1-2-1 | Dome not rotating temp control - heat on main. | f. c |
| W 1 24 | 24 24 | 2 | 8.14 | $K_0$ | 1-2-1 | " " | fair |
| 1 20W | 25 11 | 2 | 5.13 | $G_0$ | 1-2-1 | " " | good |
| 1 45W | 29 34 | 2 | 8.58 | $K_0$ | 1-1-1 | " " | weak |
| 2 00W | 31 05 | 1-2 | 8.05 | $K_0$ | 1-1-1 | " " (correct star not marked on map) | weak |
| 2 15W | 32 30 | 2-1 | 7.20 | $A_5$ | 1-1-1 | " " | good |
| | 28 1 | 2-1 | 7.71 | $G_5$ | 1-1-1 | " " | good |

Date Fri Aftern Oct 20-21 1951 Observer Hd-L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18073 | HD 50217 | 09 13.4 | 26 40 | I-12 | E103aO | 008 | +7.7 | 20 10 | 21 00 | 1 | W1? |
| 18074 | HD 90567 | 10 22.5 | 27 47 | " | " | " | -1.5 | 21 02 | 21 30 | 2 | W141 |
| 18075 | HD 100993 | 11 32.3 | 25 53 | " | " | " | +7.5 | 22 32 | 23 42 | 3 | W143 |
| 18076 | HD 110553 | 12 40.2 | 27 57 | " | " | " | +7.6 | 23 44 | 00 54 | 4 | 144W |
| 18077 | " 127386 | 14 26.0 | 25 33 | " | " | " | +7.6 | 00 59 | 01 30 | 1 | 138W |
| 18078 | " 143313 | 15 04.6 | 25 52 | " | " | " | +7.6 | 02 09 | 03 46 | 2 | 136W |
| 18079 | " 156652 | 17 13.7 | 29 02 | " | " | " | +7.6 | 03 50 | 04 30 | 5 | 134W |
| | Focus Test | | | | E103aO | 007 | | | | | |

Dome Temp. 4
Focus 12
Dome Temp.

Dome Temp. 41 F
Focus 12.895
Dome Temp. 33 °F

Transparency Conditions Poor - Then better

Clouds in south before 1st comp.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 1 19 | 26 30 | 0 | 7.93 | K0 | 1-2-1 | | fine |
| W 1 41 | 27 27 | 0 | 8.65 | G0 | 1-2-1 | * thin } comp marks | fair |
| W 1 43 | 25 41 | 0 | 8.49 | G0 | 1-2-1 | | fine |
| 1 48 W | 27 39 | 0 | 5.47 | K0 | 1-½-½ | | fine |
| 1 08 W | 25 18 | 0-1 | 8.27 | G5 | ½-½-½ | | good |
| 1 26 W | 25 42 | 1 | 8.91 | K5 | ½-½-½ | | fine |
| 0 57 W | 28 57 | 1-2 | 8.09 | M0 | ½-½-½ | | fair |
| | | | | | 3/2 | 2 PH. on Standard +12 Hor M | OK |

Date 9 p.m. April 23-24/51 Observer L- Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18080 | H.D. 89055 | 10 11.3 | 26 22 | T 12½ | E-103a-O. | 5 c.t. C08 | 48.2 | 20 15 | 21 09 | ½ | |
| 18081 | " 100041 | 11 25.6 | 29 00 | " | " | " | 48.2 | 21 15 | 21 55 | 1 | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. +45°F

Focus 12.895

Dome Temp.

Transparency Conditions Good

| Ending Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | 0 42W | 26 06 | 0 | 3.02 | Go | ½-½-½ | AG 25 | fine |
| | | 0 14W | 28 43 | 0 | 3.05 | M0 | ½-½-½ | " Clouds at 21.45, strong at 21.57 4 Feb limits +8 | v good |

Date Thurs. Night 26-27 1951 Observer HL - Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18082 | HD. 83340 | 09 32.6 | 28 29 | I-12 | E 1030 | .008 | 12.8 | 19 57 | 20 47 | 1 |
| 18083 | HD. 83807 | 09 35.8 | 24 25 | " | " | " | 13.1 | 20 49 | 21 55 | 2 |
| 18084 | HD. 100992 | 11 32.3 | 25 58 | " | " | " | 13.0 | 22 01 20 59 | 23 11 | 3 |
| 18085 | HD 112257 | 12 50.3 | 28 18 | " | " | " | 13.0 | 23.15 | 00 21 | 4 |
| 18086 | HD 120803 | 13 46.6 | 25 12 | " | " | " | 13.0 | 0 - 34 | 1 14 | 1 |
| 18087 | HD 143687 | 15 56.8 | 31 51 | " | " | " | 13.0 | 0 - 02 | 03 32 | 2 |
| 18088 | HD 163950 | 17 [illegible] | [illegible] | " | " | " | 13.0 | 04 15 | 04 [illegible] | 3 |
| | FOCUS TEST | O. T. B. | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dat

Dome Temp. +50 | Transparency Conditions Fair | 118"

Focus 12.875

Dome Temp. +43°F

| Ending Time E.S.T. | P.R. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | W 1 10 | 28 14 | 0 | 7.75 | $G_0$ | 1-1-1 | AG 25 | good |
| | | W 2 15 | 28 11 | 0 | 8.32 | $G_0$ | 1-1-1 | " " | fair |
| | | W 1 35 | 25 39 | 0 | 8.49 | $G_0$ | 1-1-1 | " " | fair |
| | | 3 38 W | 23 20 | 0 | 8.30 | $G_5$ | 1-1-1 | " " | good |
| | | 3 27 W | 24 56 | 0 | 8.65 | $K_0$ | 1-1-1 | " " | ok |
| | | 1 34 W | 31 42 | C-1 | 7.69 | $K_0$ | 1-1-1 | K. A. | ok |
| | | | 27 32 | 0 | 7.90 | $D_5$ | 1-1-1 | " " | ok |

Dat Apr 28-29 About 170 visitors. Showed ½ with 5", Q + ½ with 4" + N's 3". Condensation prevented opening 74".

— Ht, L.

Date Sun., April 29/30, 1951 Observer W.M. - E.H. Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18089 | HD 89 630 | 10 15.5 | +27 25 | I 13 | 3a-D | SLT 1.8 | +17.2 | 20 14 | 21 54 | 4 | |
| 18090 | HD 107 045 | 11 47.2 | +38 26 | " | " | " | +17.1 | 22 03 | 22 39 | 1 | |
| 18091 | HD 110 786 | 12 35.4 | +28 32 | " | " | " | +17.1 | 22 35 | 00 35 | 2 | |
| 18092 | HD 126 317 | 14 19.7 | +26 11 | " | " | " | +16.9 | 00 39 | 02 39 | 3 | |
| 18093 | HD 149 574 | 16 01.5 | +39 29 | " | " | " | +16.3 | 01 45 | 03 35 | 4 | |
| 18094 | HD 166 781 | 18 07.1 | +26 38 | " | " | " | +16.5 | 03 54 | 04 30 | 1 | |
| | FOCUS TEST | O.T.B. | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 56

Focus 12.395

Dome Temp. +9/12

Transparency Conditions Good

Four Hands running

| Ending Time E.S.T. P.M. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 1ʰ47ᵐW | +27°1C' | O | B 5.60 | 1-1-1 | AG 2.5 | | weak |
| | 0ʰ51ᵐ | +38 04 | O | 7.14 | 1-1-1 | Standard | | good |
| | 2 04W | +28 19 | O | B 5.5 | 1-1-1 | AG 2.5 | | good |
| | 2 20W | +35 36 | O | - | M3 | 1-1-1 | " " much Tug | weak |
| | 1 44W | +32 16 | O | 7.62 | G8 | 1-1-1 | STANDARD | good |
| | 0 37W | +26 27 | O- | 7.49 | G- | 1-1-1 | AG 2.5 | good |
| | | | | | | | a/c | |
| | | | | | | | centre to violet | |
| | | | | | | | 3 pU. bad/ | |

Date Mon. April 30 Wed. 1/51 Observer L. Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 18095 | H.D. 102404 | 11 42.1 | 24 59 | I-12½ | E 103a-O | S-1 .008 | +16.2 | 21 08 | 22 43 | 2 |
| 18096 | " 115256 | 13 10.0 | 29 17 | " | " | " | +16.2 | 22 56 | 00 12 | 3 |
| 18097 | " 121156 | 13 46.8 | 27 35 | " | " | " | +16.1 | 00 14 | 01 40 | 4 |
| | FOCUS TEST | D.J. | E. | | | | | | | |

Dome Temp. +54°F
Focus 12.905 Centre to Violet
Dome Temp. +52°F

Transparency Conditions Fair

Delayed start because of clouds.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1 18 W | 24 42 | 0 | 8.70 | K0 | 1-½-½ | A.C. 25 | |
| 1 14 W | 28 59 | 0 | 8.77 | K0 | ½-½-½ | " " | |
| 2 05 W | 27 20 | 0 | 8.32 | K0 | 1-1-1 | " " Light Cloud [illegible] | |
| | | | | | | 4/2 [illegible] 01:15 | |
| | | | | | | 9 Plate Loaded, 9 — Box. | |

Date Tues May 1-2, 1951 Observer Hdl - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 18098 | HD 87680 | 10 01.5 | 29 44 | I-12 | E103a0 | .008 | +18.1 | 20 06 | 21 00. | 4 |
| 18099 | HD 97658 | 11 09.2 | 26 16 | " | " | " | +18.1 | 21 04 | 21 54 | 1 |
| 18100 | HD 102161 | 11 40.4 | 25 41 | " | " | " | +18.2 | 21 56 | 23 06 | 2 |
| 18101 | HD 112299 | 12 50.6 | 26 16 | " | " | " | +18.2 | 23 08 | 00 14 | 3 |
| 18102 | " 126327 | 14 19.7 | 26 11 | " | " | " | +18.2 | 00 18 | 02 38 | 4 |
| 18103 | " 156002 | 17 10.0 | 25 56 | " | " | " | +18.1 | 02 45 | 03 50 | 1 |
| 18104 | " 172132 | 18 33.4 | 28 58 | " | " | " | +18.1 | 03 55 | 04 35 | 2 |
| | Focus [illegible] | | | | C F 3 | | | | | |

Dome Temp. 61

Focus 12.905

Dome Temp.

Transparency Conditions Good

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 1 14 | 29 29 | 0 | 8.21 | $G_5$- | 1-1-1 | | |
| W 1 01 | 25 59 | 1 | 8.35 | $K_0$ | 1-1-1 | | |
| W 1 42 | 25 23 | 1 | 8.75 | $G_5$ | 1-1-1 | | |
| 1 40W | 26 00 | 1 | 8.78 | $G_0$ | 1-1-½ | | |
| 2 36W | 25 55 | 1 | - | $M_8$ | ½-½-½ | Like a drop of blood | |
| 0 59W | 26 92 | 1 | 8.88 | $G_5$ | ½-½-½ | | |
| 0 20W | 29 00 | 1 | 8.37 | $K_2$ | ½-½-½ | | |
| | | | | | 312 | 1 P.H broke but of plate measured | |

Date Wednesday May 22, 1935 Observer Ha-Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18105 | [illegible] | 13h 48m 5 | +25° 21 | 2.3 | 103a | .02 | +19.7 | 22h 04m | 00 05 | 1 | 0 |
| | FOCUS TEST | 0.7.5 | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 58°

Focus 12.90.5

Dome Temp. 54°

Transparency Conditions Poor

| Ending Time E.S.T. | P.M. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 26° 0' | 0 | 8.3 | K0 | 1-1-1 | AC 25 Light Clouds. 3/2 from OR 3 Pl. Ended 6 Min. Exp. | In & Out |

Date Thurs May 31 4/51 Observer L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18106 | HD. 130500 | 14 43.5 | 25 53 | I-12½ | E-103a0 | 5 cm .308 | +11.5 | 00 22 | 02 06 | 1 | |
| 18107 | " 150567 | 16 36.8 | 29 06 | " | " | " | +11.5 | 02 11 | 03 41 | 2 | |
| 18108 | " 164042 | 17 54.2 | 27 23 | " | " | " | +11.5 | 03 45 | 04 29 | 3 | |
| | Focus Spot | | | | 0 T | 13 | | | | | |

Dome Temp. +48°F
Focus 12.905
Dome Temp. +42°F

Transparency Conditions Good

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 1 48 w | 25 39 | 0 | 3.95 | K0 | ½-½-½ | AG. 25 | fine |
| | 1 30 w | 28 59 | 0 | 8.75 | K2 | ½-½-½ | " " | good |
| | 1 01 w | 27 23 | 0 | 8.39 | K2 | ½-½-½ | " " | lt wh |
| | | | | | | 3/2 | 4 Pts. Looked +-+ foc. OK | |

Date Fri May 4-5, 1951 Observer Hd - Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 18109 | HD 90443 | 10 21.4 | 25 26 | I-12 | Eo3a0 | 008 | +14.0 | 20 14 | 21 14 | 1 |
| 18110 | HD 100179 | 11 26.6 | 24 52 | " | " | " | 14.0 | 21 16 | 22 16 | 2 |
| 18111 | HD 109552 | 12 30.5 | 29 23 | " | " | " | 14.0 | 22 19 | 23 23 | 3 |
| 18112 | HD 116029 | 13 15.9 | 25 10 | " | " | " | 13.9 | 23 26 | 00 26 | 4 |
| 18113 | HD 132892 | 14 56.5 | +4 59 | " | " | " | 13.9 | 00 31 | 01 11 | 1 |
| 18114 | HD 143274 | 15 57.0 | 99 33 | " | " | " | 13.9 | 01 14 | 01 58 | 2 |
| 18115 | HD 148605 | 16 03.6 | 29 16 | " | " | " | 13.9 | 02 02 | 02 40 | 3 |
| 18116 | HD 159170 | 18 01.1 | 29 08 | " | " | " | 13.7 | 02 31 | 03 11 | 4 |
| | FOCUS TEST | E.T.E. | | | | | | | | |

Dome Temp. 50 F
Focus 12.905
Dome Temp. 49.3°C

Transparency Conditions Good

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 1 21 | 25 12 | 0 | 8.13 | K0 | 1-1-1 | AE 25 | good |
| W 1 17 | 24 35 | 0 | 8.15 | K2 | 1-1-1 | " " poor guiding | fair |
| W 1 21 | 29 06 | 0-1 | 8.39 | G0 | 1-1-1 | " " | fair |
| 1 32W | 29 54 | 0-1 | 8.35 | K0 | 1-1-1 | [illegible] | Hazy |
| 0 49W | 28 45 | 1 | 7.98 | K0 | 1-1-1 | K.A. | good |
| 0 31W | 28 24 | 0-1 | 7.92 | K0 | 1-1-1 | " | fair |
| 1 53W | 29 05 | 0 | 7.76 | A3 | 1-1-1 | " a little very faint | Hazy |
| 0 50W | 29 03 | 0 | 7.89 | K0 | 1-1-1 | AE 25 | good |
| | | | | | | 412 focus? | |
| | | | | | | 4 Pl's loaded, A in box. | |

Date Saturday, May 5/6, 1951 Observer W. W. - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SET | | | | | |
| 18117 | HD 147025 | 13 22.6 | +29 24 | 12½ | E 103a-D | 0.08 | +13.6 | 22 25 | 00 03 | 1 | 1 40 |
| 18118 | " 147643 | 15 48.4 | 29 13 | " | " | " | +13.6 | 00 34 | 00 04 | 1 | 0 54 |
| 18119 | " 155675 | 17 08.0 | 25 22 | " | " | " | +13.6 | 02 09 | 02 51 | 2 | 0 34 |
| 18120 | " 166181 | 18 04.4 | 21 33 | " | " | " | +13.6 | 03 35 | 04 21 | 3 | 0 14 |
| | Tau Sco | | | | | OUT | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 47°F
Focus 12.905
Dome Temp. 43°F

Transparency Conditions ...some cloud & haze

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1 40W | +29 06 | 0 | 8.71 | K0 | 1-1-1 | 1615 | V. good |
| 0 50W | 29 03 | 0 | 8.72 | K2 | 1-1-1 | " | fine |
| 0 55W | 25 13 | 0 | 8.53 | G0 | 1-1-1 | " | fine |
| 0 51W | 23 41 | 0 | 8.16 | G5 | 1-1-1 | " | fine |
| | | | | | 3/2 | focus O/K | |
| | | | | | | 4 Plates taken +4 | |

Date Sunday May 6-7, 1951 Observer Hd - Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18121 | HD 102494 | 11 42.7 | 27 53 | I-12 | E 10340 | 008 | +14.1 | 21 38 | 22 38 | 1 | |
| 18122 | HD 114172 | 13 03.8 | 29 55 | " | " | " | +14.1 | 22 40 | 23 48 | 2 | |
| 18123 | HD 121844 | 13 52.9 | 25 31 | " | " | " | +14.0 | 23 50 | 00 50 | 3 | |
| 18124 | HD 129398 | 14 06.0 | 29 12 | " | " | " | +14.0 | 00 57 | 01 47 | 4 | |
| | HD 151256 | 16 41.2 | 20 96 | " | " | " | | | | 1 | |

* observe standard times see minute

Dome Temp. 54 F
Focus 12905
Dome Temp.

Transparency Conditions Some light clouds
Cloudy at sunset, clearing slowly.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 1 32 | 27 36 | 1 | 8.60 | $G_5$ | 1-1-1 | Heat was not on mirror + seeing was good right at {beginning. | stars |
| W 1 21 | 29 38 | 1 | 8.77 | $G_0$ | 1-1-1 | Some haze. | fuzz |
| 1 35 W | 25 14 | 1-2 | 8.32 | $K_0$ | 1-1-1 | AG 25 | good |
| 2 17 W | 28 55 | 2-1 | 7.90 | $F_2$ | 1-1-1 | K. 9. | ok |
| | | | 9.86 | $K_2$ | | AG 26 [illegible] | |
| | | | | | | 7" field | |
| | | | | | | H m M | |
| | | | | | | [illegible] | |
| | | | | | | [illegible] | |
| | | | | | | [illegible] 02:20 E.S.T. | |
| | | | | | | 9 Ph's [illegible] | |

135

Date Tues, May 8/9, 1951 Observer Wm - Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18125 | HD 94336 | 10 48.2 | +36 44 | 1-12½ | Eng-R | 0.5 mm | | 20 15 | | 4 |

Dome Temp.
Focus
Dome Temp.

| Hour Angle End |
|---|

Dome Temp. 64°F

Focus 2.305

Dome Temp.

Transparency Conditions



| Reading Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | E-2 | M.C | 1- | AC 25 | Poor work |
| | | | | | | | | 3 plates 1 box. | |

Date Wednesday May 9/10, 1951 Observer Ho - Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18126 | HD 103614 | $11^h\ 50.^m8$ | $+26^\circ\ 03'$ | I 12" | E103aO | 008 | +14.1 | $21^h\ 27^m$ | $23^h\ 10^m$ | 1 | $12^h\ 07^m$ W |
| 18127 | HD 121149 | 13 48.6 | 28 09 | " | " | " | +14.0 | 23 17 | 00 37 | 2 | |
| 18128 | HD 142108 | 15 47.6 | 42 52 | " | " | " | +13.9 | 00 47 | 01 37 | 3 | |
| 18129 | HD 151256 | 16 41.2 | 24 46 | " | " | " | +13.9 | 01 42 | 03 42 | 4 | |
| | FOCUS TEST | | O. T. 3. | | | | | | | | |

Dome Temp. 4
Focus 12.90
Dome Temp.

Dome Temp. 47°

Focus 12.90.5

Dome Temp.

Transparency Conditions Good

very bright aurora.

| Ending Time E.S.T. | P.N. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| 23h 10m | 1 | 02h 07m W | +25° 46' | 0- | 8.75 | $G_0$ | 1-1-1 | AG25 (hazy, very poor for last hour) | bad |
| 27 | 2 | 1 37W | +27 53 | 0 | 8.58 | $G_0$ | 1-1-1 | AG25 light cloud 00: 10 | good |
| 3 | 3 | 0 39W | +42 42 | 0 | 7.64 | $F_5$ | 1-1-1 | K.A. | bad |
| 4 | 4 | | 24 40 | -0 | 8.86 | $K_2$ | 1-1-1 | AG 25 | bad |
| | | | | | | | | a/2 center on f. on focus last two wk | |
| | | | | | | | | = Rockford, Swiss | |

Date Saturday May 12-13/57 Observer Gu N. Hd - Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18130 | HD 112753 | 12 53.9 | 28 00 | I-12 | E103a0 | 008 | 11.6 | 22 05 | 23 05 | 1 | |
| 18131 | HD115929 | 13 15.2 | 28 38 | " | " | " | 11.6 | 23 07 | 00 07 | 2 | |
| 18132 | HD 121319 | 13 49.7 | 28 50 | " | " | " | 11.3 | 00 10 | 01 20 | 3 | |
| 18133 | HD 150331 | 16 35.9 | 25 44 | " | " | " | 11.1 | 01 25 | 03 05 | 4 | |
| 18134 | HD 160503 | 17 35.2 | 26 49 | " | " | " | 11.1 | 03 09 | 04 05 | 1 | |
| | FOCUS TEST O.T.3. | | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 44 F
Focus 12.905
Dome Temp.

Transparency Conditions Good

about 200 minutes. Showed ♄ with 7¾"
( with 5", ♀ with 4".

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 1 11 | 27 43 | 0 | 8.26 | $G_5$ | 1-1-1 | AG 25 | good |
| 1 51 W | 28 20 | 0 | 8 1/2 | $G_0$ | 1-1-1 | " " | good |
| 2 23 W | 28 34 | 0-1 | 8.19 | $K_0$ | 1-1-1 | " " | [illegible] |
| 1 30 W | 25 37 | 0 | 8.82 | $K_0$ | 1-1-1 | " " | [illegible] |
| 1 3½ W | 26 46 | 0-1 | 8.23 | $G_0$ | 1-1-1 | " " 1 cl. N from [illegible] | wk |
| | | | | | | 9/2 | |
| | | | | | | 2 Ph's loaded, 4 in box | |

Date Sun-Mon May 13/14, 1951 Observer Wm - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SET | | | | | |
| 18135 | HD 101 856 | 11 38.3 | +28 07 | I-12½ | E 103a-O | 008 | +13.0 | 20 25 | 21 05 | 3 | 1h 3. + |
| 18136 | HD 114762 | 13 07.5 | +18 02 | " | " | " | 12.9 | 22 16 | 23 16 | 2 | 1 [illegible] |
| 18137 | HD 128095 | 14 29.9 | +28 55 | " | " | " | 12.8 | 23 21 | 01 01 | 4 | 1 35 W- |
| 18138 | " 149 132 | 16 27.7 | 29 49 | " | " | " | 12.6 | 01 05 | 02 25 | 1 | 1 02 W |
| 18139 | " 160 952 | 17 37.7 | 29 39 | " | " | " | 12.6 | 02 30 | 04 06 | 2 | .33 |
| | Focus Spot | | | | O T 13 | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 53 °F

Transparency Conditions Good

Focus 12.905

Dome Temp.

19 DOZ PLATES IN FRIG

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1 W 31 | +27°50′ | 0 | 8.72 | K0 | 1-1-1 | AG25 | good |
| 1 W 12 | +17°45′ | 0 | 8.2 | F7 | 1-1-1 | STD. VEL. * | fair |
| 1 35W | +28°41′ | 0 | 8.72 | G5 | 1-1-1 | AG25 | good |
| 1 02 W | 29 43 | 0-1 | 8.70 | K0 | 1-1-1 | " " | fair |
| 1 33W | 29 36 | 0-1 | 8.91 | K0 | 1-1-1 | " | fair |
| | | | | | 3/2 | 1 PH loaded + 12 OK | |

Date Mon Tue 10:1 Sept 14 15 Observer LR - Gw Julian Day ?

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18140 | HD102404 | $11^h 42.^m1$ | $+24° 59'$ | I 12½ | E1030 | 005 | +17°4 | $20^h 26^m$ | $22^h 06^m$ | 3 | |
| 18141 | 115 339 | 13 11.5 | +28 17 | " | " | " | +17.5 | 22 13 | 23 23 | 4 | |
| 18142 | 126 327 | 14 19.7 | +26 11 | " | " | " | +17.5 | 23 28 | 01 14 | 1 | |
| | FOCUS TEST | | O.T.B. | | | | | | | | |

Dome Temp
Focus
Dome Temp

Dome Temp. 63°F
Focus 12·9.06
Dome Temp. +55°F

Transparency Conditions somehaze
haze darkening, will clear from West & North. 01:00

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1h 38m W | +24° 41' | 0 | 8·70 | KO | 1-1-1 | AG25 Clear, morning, partly gusty. Guiding strip | Did not run h numbers strip |
| 1 20 W | +28 00 | 0 | 8·49 | KO | 1-1-1 | " 21:43 1·2 sec. Very 21 guiding from 15h30m+23°16h00m+29° | strip |
| 2 03W | +25 55 | 0-1 | 8·9 | M8 | 1-1-1 | " At about 10:30 | good. |
| | | | | | | 9/2 | |
| | | | | | | H on M. 9 thin headed, 6 in box | |

Date ~~14~~ Tues-Wed May 15-16/51 Observer Hd - R Julian Day ?

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 18143 | HD 103095 | 11 47.2 | 38 26 | I-12 | E 103a O | 008 | 24.2 | 20 19 | 20 39 | 1 |
| 18144 | HD 102646 | 11 44.0 | 28 41 | " | " | " | 24.2 | 20 42 | 21 40 | 2 |
| 18145 | HD 112257 | 12 50.3 | 28 18 | " | " | " | 24.1 | 21 43 | 22 53 | 3 |
| 18146 | HD 120895 | 13 47.2 | 25 11 | " | " | " | 24.1 | 22 57 | 23 57 | 4 |
| 18147 | HD 125320 | 14 13.6 | 27 15 | " | " | " | 24.0 | 00 01 | 01 16 | 1 |
| 18148 | HD 153698 | 16 55.9 | +27 29 | " | " | " | 24.0 | 01 22 | 02 37 | 2 |
| 18149 | HD 165389 | 18 01.6 | +28 41 | " | " | " | 24.0 | 02 42 | 03 17 | 3 |
| 18150 | HD 161112 | 17 38.6 | +26 36 | " | " | " | 24.0 | 03 29 | 04 11 | 4 |
| | FOCUS TEST | I.R.T. | | | | | | | | |

Wed. May 16-17 cloudy, clearing during night — Tue. May 22-23 clear — Mon. May 28-29 broken

Thu. May 17-18 hazy but clear — Wed. 23-24 broken — Tue. 29-30 cloudy

Fri. May 18-19 clear — Thu. 24-25 clear — Wed. 30-31

Sat. May 19-20 clear ~200 visitors Vm N C, T2 4,3 in tab. — Fri. 25-26 clear — Thu. 31-1

Sun. May 20-21 clear — Sat. 26-27 rain — Fri. Jun. 1-2 rain

Mon 21-22 clear? — Sun. 27-28 rain — Sat. 2-3 cloudy

Dome Temp. 72 F

Focus 12.905

Dome Temp.

Transparency Conditions Poor

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 4m | .38 03 | 2 | 7.24 | G5 | 1-1-1 | Stellar. Bad haze | |
| W 1 08 | 28 21 | 1 | 8.05 | K0 | 1-1-1 | HG " " | |
| W 1 15 | 28 01 | 1-0 | 8.30 | G0 | 1-1-1 | HG Fine clearing | |
| W 1 22 | 24 55 | 1 | 8.56 | K0 | 1-1-1 | A.G. I think I have right star here but it is not circled on chart. Check for possible errors in plate. | |
| W 2 15 | +27 01 | 1 | 8.75 | G5 | 1-1-1 | AG-25 | |
| W 0 55 | +27 23 | 1-0 | 8.58 | M3 | 1-1-1 | " | |
| W 0 29 | +28 40 | 1 | 7.85 | K2 | 1-1-1 | " | |
| W 0 146 | +26 74 | 1 | 8.43 | K0 | 1-1-1 | [illegible] Cloud | |
| | | | | | 4-2-4 | | |

May 16 Fire in control panel. Discovered by L. Some damage to wiring.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sun. Jun. | 3-4 | cloudy | Sat June 9-10 | rain (no visitors) | | | | |
| Mon. | 4-5 | cloudy | Sun 10-11 | broken | | | | |
| Tues. | 5-6 | clear | Mon 11-12 | " | Fri 15-16 mostly clear | | Tues 19-20 | Cloudy |
| Wed. | 6-7 | clear | Tues 12-13 | mostly cloudy | Sat 16-17 Beautiful night Clear + warm. 34 cars. H5H, 6F, VG D, h, ♀ in zenith. | | Wed 20-21 | Rain |
| Thurs | 7-8 | clear | Wed 13-14 | rain | Sun 17-18 Fog - Some clouds. | | Thurs 21-22 | cloudy 6 visitors |
| Fri | 8-9 | cloudy | Thurs 14-15 | clear | Mon 18-19 Broken. | | | |

clamming and cabling completed

Date Sat - Sun June 23/24 Observer Hd - Gu Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SET | | | | | |
| 18151 | HD 143705 | 15 56.9 | +29 13 | I-12½ | E103a-O | .008 | +21.9 | 22 25 | 2 [illegible] | 3 | |
| 18152 | HD 149241 | 16 38.9 | +27 55 | " | " | " | +21.5 | 23 03 | 23 35 | 1 | |
| 18153 | HD 144579 | 16 01.5 | +39 24 | " | " | " | +21.2 | 23 39 | 23 51 | 2 | |
| 18154 | π Her | 17 11.6 | +36 55 | " | " | " | +21.0 | 23 56 | 23 58 30 | 3 | |
| " | " | " | " | " | " | " | +21.0 | 23 58 | 23 59 | 3 | |
| " | " | " | " | " | " | " | +21.0 | 00 00 | 00 01 30 | 3 | 0 36 M |
| 18155 | HD 161197 | 17 39.1 | +29 50 | " | " | " | +21.0 | 00 09 | [illegible] | 1 | |
| 18156 | HD 166842 | 18 07.4 | +25 32 | " | " | " | +21.0 | 01 12 | 01 32 | 2 | |
| | ~~HD 171836~~ | ~~18 31.8~~ | ~~+27 08~~ | " | " | " | | | | 3 | |

Dome Temp.
Focus 12.
Dome Temp.

Dome Temp. +68°F
Focus 12.200
Dome Temp. +63°F

Transparency Conditions Good

About 125 Vintons showed by with 7½"
♀ with 4"

| Ending Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 48W | +27 04 | 0+ | 8.44 | $G_5$ | 1-1-1 | AG 25 This plate developed. Not numbered. marked X | ½ stron |
| | 5 | 0 51W | +27 48 | 0-1 | 8.79 | $K_5$ | 1-1-1 | " " | ½ weak |
| | 2 | 1 36W | +29 16 | 1 | 7.62 | $G_8$ | 1-1-1 | Std. vel. | strong |
| | 3 | | +36 51 | 1 | 9.6 | $K_2$ II | 3 | Std Yerkes Std. Lum. | |
| | 3 | | " | 1 | " | " | 3 | " 5 " | fine |
| 90 01 30 | 3 | 0 36W | " | 1 | " | " | 3 | " 9 " | |
| | | 1 16W | +24 47 | 0 | 8.68 | $G_5$ | 1-1-1 | AG 25 Forgot to cycle switch on temp. control. Reset now. | fine |
| | 2 | 1 11W | +25 33 | 0+ | 7.44 | $K_0$ | 1-1-1 | " " Clouds from SE | good |
| | | | | | 8.62 | $K_0$ | | " " not cloud after clear spell | weak emission lines |
| | | | | | | | | overcast 02:00 | |
| | | | | | | | | 1 Ph tracked, 4 in box. | |

For exposure times 3 magnet subtract 1.5 from phot mag. & use table. 8 Aug.

Date 1951 June 21/22 Observer R Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.B | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18157 | [illegible] | [illegible] | [illegible] | I 12½ | 103a0 | [illegible] | +25° | 22h 19m | [illegible] | 3 | [illegible] |
| 18158 | π Pav | 17 11.6 | −36 55 | " | " | " | +23.1 | 23 [illegible] | [illegible] | 4 | [illegible] |
| — | HD 152037 | | | | | | | — | — | / | |
| — | 5 Pav | | | | | | | — | — | 1 | |
| 18159a | — | | | | | | | | | / | |
| 18159b | [illegible] | [illegible] | [illegible] | " | " | " | +23.1 | 02 14 | — | 2 | — |
| 18159b | [illegible] | [illegible] | [illegible] | " | " | " | +23.1 | 02 47 | 03 41 | | |
| | [illegible] | OTB | | | | | | 00=17 | | | |
| 8/1600 | 5 Cyg | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | +22.8 | 03 19 | 03 34 | 3 | [illegible] |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 70°F
Focus 12.9.06
Dome Temp. 70°F

Transparency Conditions Cloudy in early evening. Rain ~~[illegible]~~ of ~~[illegible]~~ in [illegible]. Lightning in east before midnight 49 SF.

150

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| WCh 55 | +25° 43' | 0-1 | 8.9 | K5 | 1-1-1 | AG-25. Comp ones quickly centered | |
| E 0 12 | +36 52 | 1 | 4.6 | K3II | 3 | Yerkes std. stars. Very cloudy, poor + uncertain | |
| | | | | | | AG-25 Sun-Set; Cloud ones + cirrus | |
| | | | | | | Stand stars, Invisible; Clouds > 7 mag. | |
| | | | | | | Focustat OTB plate not kept. | |
| ~~[illegible]~~ | ~~+24 57~~ | ~~0-1~~ | ~~8.5~~ | ~~K0~~ | | Hopeless, weather, 1st sign clearing | |
| | | | | | | up at 1:15 A.M. | |
| | | | | | | 2 pk Landed, 8 in bed, 4 in | |
| | | | | | | block box exposed for 4 minutes | |
| WCR 30 | +24 57 | 0 | [illegible] | [illegible] | 1-1-1 | Weather improved. Stars, exposed eleven | |
| | | | | | | exposures, 59 photographs taken. | |
| WO 06 | +30 06 | 0 | 4.4 | [illegible] | 1-1-1 | Thick clouds during latter part. | |
| | | | | | | For 30 m. clouds Mag = 3 or 4. | |
| | | | | | | 4 PM | |

Mon Tues -26

**Date** June 25, 1951 **Observer** S-L-GZ **Julian Day** 243

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 1E161 | NGC 6205 | 16 39.9 | +36 33 | Newt | E 103aO | | | 22 19 | 22 [illegible] | 2 | [illegible] |
| 8 1E162 | " 5904 | 15 16.0 | +02 16 | | " | | | 22 27 | 22 31 | 1 | |
| 8 1E163 | " 5897 | 15 14.6 | -20 44 | | " | | | 22 35 | 22 45 | 2 | |
| 8 1E164 | " 6426 | 17 42.4 | +03 12 | | " | | | 22 57 | 23 06 | 1 | |
| | " 109 | 17 42.5 | -00 11 | | " | | | 23 10 | 23 24 | | |
| 8 1E165 | IC 1276 | 18 07.3 | -07 15 | | " | | | 23 35 | 23 55 | 2 | [illegible] |
| 8 1E166 | NGC 6093 | 16 14.1 | -22 52 | | " | | | 00 06 | 24 16 | 1 | |
| 8 1E167 | 6235 | 16 50.4 | -22 06 | | " | | | 00 15 | 00 33 | 2 | |
| 8 1E169 | 6838 | 19 51.3 | +18 38 | | " | | | 00 54 | 00 59 | 1 | |
| 8 1E169 | 6712 | 18 50.3 | -08 47 | | " | | | 01 10 | 01 24 | 2 | |
| 8 1E170 | 6779 | 19 14.6 | +30 05 | | " | | | 01 28 | 01 34 | 1 | |
| | 6426 | 17 42.4 | +03 12 | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. +63° F

Focus

Dome Temp. +59° F

Transparency Conditions Hazy

| Ending Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | 0 21 E | +3- 33 | | | | | Focusing on 2 Stars | |
| | | 1 11 W | | | | | | | |
| | | | | | | | | Seeing poor | |
| | | | | | | | | Sequence | |
| | | 0 17 E | | | | | | Focusing on β Cyg | |
| | | | | | | | | Guide star gone at 14 minutes due to clouds | |
| | | | | | | | | " | |
| | | | | | | | | " | |
| | | | | | | | | Couldn't use Wedge for blends - too small focus | |
| | | | | | | | | Tues-Wed June 26-27 Cloudy | |
| | | | | | | | | Wed-Thurs June 27-28 American Asst Clay Engineers all hands on deck - S, L, Cy, Cu, My, Ha | |
| | | | | | | | | 4½ hrs blends, 7 hrs - Cloudy - stopped at 2130 EST. | |
| | | | | | | | | briefly | |

Date Fri June 29/30 1951 Observer L - Wa Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18171 | H.D. 150431 | 16 35.9 | 25 44 | I-12½ | F-1030 | set .008 | +24.8 | 22 40 | 23 26 | 1 | 1.14 |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 66°F
Focus 12.905
Dome Temp.

Transparency Conditions Slight Haze

Delayed start because of light clouds.

| Ending Time E.S.T. P.M. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 1 00 W | 25 37 | 0-1 | 8.82 | Ko | 1-1-1 | A.G. 25 Haze! cloudy sky alternately clear and cloudy gave up. 3 P.M.s tested + 3 bkg. | weak. |
| | | | | | | | Saturday, June 30. 6 P.M. 30 minutes; Cloudy; 62 all we need is the sun. | |
| | | | | | | | Sunday - July 1. 5 afternoon Visitors. | |

Date Monday, Tuesday, July 2-3/21 Observer G.Z. Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18172 | HD 182218 | 19 18.5/7 | +26 58 | 1-12½ | 1032-0 | 0.005 | +22.0 | 01 00 | 01 46 | 2 | |
| 18173 | 192405 | 20 09.6 | +27 14 | " | " | " | +22.0 | 01 51 | 02 27 | 3 | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. +64° F
Focus
Dome Temp. +62° F

Transparency Conditions Clear. Some aurora in north. 156
Delayed by thunderstorms and some
[illegible] partly light cloud.

| Ending Time E.S.T. | P.H. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | 0 50 W | +27 05 | 0 | 8.91 | Ko | ½-½-½ | AG 25 in R.A. | good Comp weak Comp weak fine |
| | | 0 40 W | +27 23 | 0 | 8.42 | Go | ½-½-½ | " Fast Motion registered but not recording Slow motion o.k. Unable to set on Star near it with hand clock. | |
| | | | | | | | | 4 P.H. [illegible] spots on this | |

Date Thurs July 5-6/51 Observer L - Wa Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18174 | 31 com | 12 46.8 | 28 05 | I-12½ | E-103aO | Set .008 | +19.9 | 21:27 | 21:29 | 1 | |
| | | | | | | | | 21:31 | 21:32 | | |
| | | | | | | | | 21:33 | 21: | | |
| 18175 | ξ Boo A | 14 46.8 | 19 31 | " | " | " | +19.9 | 21:48 | 21:48 | 2 | |
| | | | | | | | | 21:52 | 21:3 40 | | |
| | | | | | | | | 21:55 | 21: 20 | | |
| 18176 | HD. 151780 | 16 44.4 | 26 46 | " | " | " | +19.9 | 22 09 | 22 47 | 3 | |
| 18177 | " 156563 | 17 13.2 | 25 08 | " | " | " | +19.9 | 22 50 | 23 32 | 4 | |
| 18178 | " 166670 | 18 03.9 | 27 23 | " | " | " | +19.9 | 23 54 | 00 24 | 1 | |
| 18179 | AG. 9675 | 19 07.3 | 26 14 | " | " | " | +19.8 | 00 53 | 01 17 | 2 | |
| 18180 | " 10813 | 20 00.6 | 26 12 | " | " | " | +19.9 | 01 21 | 02 01 | 3 | |
| 18181 | " 11579 | 20 35.2 | 26 17 | " | " | " | +19.9 | 02 20 | 02 54 | 4 | |
| 15182 | " 17677 | 21 30.9 | 27 34 | " | " | " | +11.8 | 02 59 | 03 31 | 1 | |
| | Jour Test | | | | CTA | | | | | | |

Dome Temp. 164°F

Focus

Dome Temp. +57°F

Transparency Conditions Good

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 3.16W | 27 48 | 0 | 5.7 | $G_0$III | 3 | Yerkes Stand. lum. | good |
| 3.19W | | 0 | | | 3 | | |
| 3 24W | | 0 | | | 3 | | |
| | 19 17 | 0 | 5.4 | G8V | 3 | Yerkes Stand. lum. | fair |
| | | 0 | | | 3 | | |
| 1 45W | | 0 | | | 3 | | |
| 0 36W | 26 41 | 0 | 8.83 | $K_0$ | 1-1-1 | A.G. 25 | good |
| 0 53W | 25 04 | 0 | 9.91 | $G_5$ | 1-1-1 | " | weak |
| 0 55W | 27 23 | 0-1 | 8.65 | $K_0$ | 1-1-1 | " | weak |
| 0 45W | 26 18 | 0-1 | 8.42 | G | 1-1-1 | " | weak |
| 0 35W | 26 20 | 0-1 | 8.90 | $G_0$ | 1-1-1 | " | fair |
| 0 54W | 26 27 | 0-1 | 8.77 | $K_0$ | 1-1-1 | " | weak |
| 0 35W | 27 -7 | 0-1 | 8.79 | $G_0$ | 1-1-1 | " clouds a little for 5 minutes | fair |
| | | | | | 3/2 | | |
| | | | | | | 4 1-4m Ends +8 | |
| | | | | July 6/5-1 | | $^{ne}_{5}$ -17.0 +1$^{m}$ $^{MTW}_{5}$ 16.8 $^{se}_{5}$ -26.7 + $^{m}$1.5 $^{STW}_{5}$ -42$^{s}$ | |

Date Fri-Sat., July 6-7, 195· Observer GZ Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18183 | HD 123782 | 14 04.6 | +49 56 | 1-12½ | E-103a O | 0.008 | +24.5 | 21 52 | 22 00 | 1 | |
| 18184 | HD 144579 | 16 01.5 | +39 24 | | | | +24.4 | 22 08 | 22 28 | 2 | |
| 18185 | AG 7973 | 16 50.0 | +2500 | | | | +24.0 | 22 36 | 23 12 | 3 | |

Dome Temp. +68° F

Focus

Dome Temp. +67° F

Transparency Conditions Fair.

Some light cloud at start.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 2 34 W | +49 42 | 0 | 6.79 | M2 | 1-1-1 | Standard velocity | Low. |
| 1 06 W | +39 17 | 0 | 7.62 | G8 | 1-1-1 | " " | Low. |
| 0 52 W | +24 56 | 0 | 8.85 | K5 | 1-1-1 | AG 25 Some cloud during exposure. Second exposure. | Low. |
| | | | | | | 1 P.H. loaded. Some lost. | |
| | | | | | | July 9/51 HC S HTW SC STW S W<br>-28.6 +.2 S -23.7 S +4.9 S -37 S | |
| | | | | | | Edge | |
| | | | | | | Line 8 in declination | |

Ending Time E.S.T. P.H.

2 00 1

2 23 2

3 1 2

Date 1951 Jul 9/10 Thru 1951 Jul 10 Observer R Julian Day 2433837

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18186 | HD 121193 | 13h 49m 52s | +17° 35' | 72" | 103a-E | 3mm | +25.0 | 21h 49m | | 1 |
| 18187 | HD 144600 | 16 01 6 | +31 50 | " | " | " | +25.0 | 22 45 | 23 03 | 1 |
| 18188 | HD 120102 | 16 38 | +27 15 | " | " | " | +25.0 | 23 09 | 23 43 | 2 |
| 18189 Blue | [illegible] | 16 37 | +31 47 | " | " | " | +25.0 | 23 45 | 23 46 | 3 |
| 18190 | HD 162950 | 17 18 | +27 11 | " | " | " | +25.0 | 23 53 | 00 13 | 4 |
| 18191 | HD 173261 | 18 39 | +25 00 | " | " | " | +25.0 | 00 17 | 00 59 | 1 |
| 18192 Blue | [illegible] | 17 [illegible] | [illegible] | " | " | " | +25.0 | 01 05 | [illegible] | 2 |
| 18193 | HD 185151 | 19 32 | +27 39 | " | " | " | +25.0 | 01 14 | 01 57 | 3 |
| 18194 | HD 185564 | 19 50 | +28 04 | " | " | " | +25.0 | 01 57 | 02 23 | 4 |
| 18195 | HD [illegible] | 19 53 | +29 26 | " | " | " | +25.0 | 02 27 | 02 43 | 1 |
| 18196 | HD 190 791 | 20 01 6 | +27 51 | " | " | " | +25.0 | 02 47 | 03 51 | 2 |
| | Focus Plate | OTB | | | | | | | | |

Dome Temp. 47.3°F

Focus 12.225

Dome Temp. 47.5°F

Transparency Conditions Covered in early evening, clearing later, resulting in [illegible] Last 1.3 mg. Seeing poor. Thin high overcast at night.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 03 31 | +27 21 | 0 | 8.2 | K0 | 1-1-1 | 1625 | |
| W 01 51 | +31 43 | 0-1 | 7.8 | A2 | 1-1-1 | KA. | |
| W 01 53 | +27 09 | 0-1 | 7.2 | K0 | 1-1-1 | A625. | |
| W 01 59 | +31 41 | 0-1 | 3.6 | F0 II | 3 | 30, 60, 90 sec. | |
| W 01 15 | +27 12 | 0-1 | 7.9 | A3 | 1-1-1 | KA. | |
| W 01 08 | +27 02 | 0 | 8.69 | K0 | 1-1-1 | A625 (Poss. IT3811 IT3088) Not K-Type Wrong *? | |
| W 01 14 | +27 44 | 0 | 4 | F II | 3 | 30, 60, 90 sec poor guiding | |
| W 01 11 | +27 16 | 0 | 8.4 | K0 | 1-1-1 | A625 | |
| W 01 12 | +25 11 | 0-1 | 7.6 | K0 | 1-1-1 | A625 | |
| W 01 10 | +28 35 | 0-1 | 7.78 | K0 | 1-1-1 | A625 | |
| W 12 37 | +27 57 | 0 | 8.35 | K0 | 1-1-1 | A625 | |
| | | | | | 4-2½ | | |
| | | | | | | 2 PH Ang. Disp. | |

Date Tues July 10-11, 1951 Observer Hd & Wa Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18197 | 31 Com | 12 46.8 | 28 05 | I-12 | E103aO | 008 | | 20 58 | 20:59 | 3 | |
| | | | | | | | | 21:00 | 21:02 | | |
| | | | | | | | 28.1 | 21:03 | 21:07 | | 3 13 |
| 18198 | G Boo | 14 30.3 | 30 11 | " | " | " | | 21:17:30 | 21:18 | 4 | |
| | | | | | | | | 21:19 | 21:20 | | |
| | | | | | | | | 21:21 | 21:23 | | |
| 18199 | δ Boo | 15 11.5 | 33 41 | " | " | " | 28.2 | 21:38:40 | 21:39 | 1 | |
| | | | | | | | | 21:40 | 21:40:40 | | |
| | | | | | | | | 21:41:30 | 21:43 | | 1 24 |
| 18200 | γ Ser | 15 51.8 | 15 59 | " | " | " | 28.1 | 22:00 | 22:00:40 | 2 | |
| | | | | | | | | 22:01:40 | 22:02 | | |
| | | | | | | | | 22:03 | 22:04:30 | | 1 14 |
| 18201 | θ Dra | 16 00.0 | 58 50 | " | " | " | 28.1 | 22:18 | 22:19:0 | 3 | |
| | | | | | | | | 22:20 | 22:21 | | |
| | | | | | | | | 22:22 | 22:24 | | 1 |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 64°F

Focus 12.905

Dome Temp. 67 F

Transparency Conditions Some clouds & haze

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | 0 | 5.7 | $G_0$ III | 1 | Std hum. | fine |
| | | | | | 3 | | |
| W 3 13 | 27 47 | | | | 8 | | |
| | | | 4.8 | $F_2$ V | 3 | Std hum. | fine |
| | | | | | 3 | | |
| W 1 45 | | | | | 3 | | |
| | | | 4.5 | $G_8$ III | 3 | Std hum. | fine |
| | | | | | 3 | | |
| W 1 24 | 33 30 | | | | 3 | | |
| | | | 4.3 | F6 IV | 3 | Std hum. | fine but smoke |
| | | | | | 3 | | |
| W 1 06 | 15 49 | | | | 3 | | |
| | | | 4.7 | F8 IV | 3 | | fine |
| | | | | | 3 | | |
| W 1 17 | 58 40 | | | | 3 | | |

Continued

Date Tues July 10-11, 1951 Observer Hoffleit Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18202 | β Dra | 17 28.2 | 52 23 | I-12 | E 10300 | 008 | | 22:37:31 | 22:37:41 | 4 |
| | | | | | | | | 22:38:25 | 22:38:45 | |
| | | | | | | | 28.1 | 22:39:40 | 22:40:20 | |
| 18203 | ζ Her | 16 37.5 | 31 47 | " | " | " | | 22:54:50 | 22:55 | 1 |
| | | | | | | | | 22:55:40 | 22:56 | |
| | | | | | | | 28.0 | 22:56:50 | 22:57:[illegible] | |
| 18204 | HD156774 | 17 16.4 | 27 03 | " | " | " | 28.0 | 23:14: | 23 58 | 2 |

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions.....

| Ending Time E.S.T. P.H. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | 0 | 3.6 | G2 V | 3 | ret 1 | fine. |
| | | | | | | 3 | 5 | |
| | W 0 06 | 53 19 | | | | 3 | 9 | |
| | | | 0 | 3.6 | G0 IV | 3 | " 1 | fine. |
| | | | | | | 3 | 5 | |
| | W 1 13 | 31 41 | 0 | | | 3 | 9 | |
| | W 1 37 | R6 5- | 0 | 5.2 | K0 | 1-1-1 | AB Prog. Think at 0 hr closed 8 1 20 | |
| | | | | | | | July 11 MC -18.7 SC -20.5 1 MTW +9.5 8 STW +.3 m SW -76 5 | |

Dome Temp.
Focus
Dome Temp.

**Date** Thurs July 12/13, 19 **Observer** Wm **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SET | | | | | |
| 18205 | HD 147527 | 16 17·4 | +29 13 | I·12 | I-103a-D | 20" | +20·1 | 21 04 | 22 04 | 3 | 0W48 |
| 18206 | HD 155359 | 17 09·9 | +26 18 | " | " | " | +20·1 | 22 09 | 23 09 | 4 | |
| 18207 | HD 167782 | 18 11·7 | +25 45 | " | " | " | +20·1 | 23 16 | 00 16 | 1 | |
| 18208 | AG 10154 | 19 31·9 | +26 16 | " | " | " | +20·1 | 00 21 | 01 21 | 2 | |
| 18209 | HD 177264 | 19 37·5 | +26 45 | " | " | " | +20·0 | 01 24 | 02 20 | 3 | |
| 18210 | HD 163830 1/2 Hour | 17 53·6 | +15 09 | " | " | " | +20·0 | 02 29 | 02 59 | 4 | |
| 18211 | HD 210026 | 22 02·9 | +26 08 | " | " | " | +20·0 | 03 05 | 04 05 | 1 | |
| | | | | Focus Test | | OTB | | | | | |

Dome Temp. +64°F

Focus 12.925

Dome Temp. +58

Transparency Conditions Fair

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 0W48 | +29 06 | 0 | 8.98 | G0 | 1-1-1 | AG25 | too thin |
| | 1W01 | +26 14 | 0 | 8.95 | G5 | 1-1-1 | " comp weak | weak |
| | 1W06 | +25 46 | 0 | 8.91 | K0 | 1-1-1 | " | last |
| | 0W51 | +26 23 | 0 | 8.93 | K0 | 1-1-1 | " | good |
| | 0W15 | +26 56 | 0+ | 8.96 | K0 | 1-1-1 | " | last |
| | 4W08 | +15 09 | 0 | 8.3 | F2 | 1-1-1 | ZnBi | fair |
| | 0W12 | +26 23 | 0 | 7.83 | K0 | 1-1-1 | AG25 | good |
| | | | | | | 4/2 | | |

July 13

| | HC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| | -18.5 | -13.8 | +10.0 | .3 m | +9.8 |

focus OK

Date Fri Jul 13 19 1951 Observer Ba Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18212 | Z Her | 17 53.6 | 15 09 | 12" | 103a-O | .008 | 24.5 | 2136 | | 5 |
| | A | | | | | | | 42 | | |
| | | | | | | | | 57 | 2215 | |
| 18213 | AZ 7774 | 18 38.4 | 25 37 | " | " | " | 24.5 | 2223 | 2312 | 1 |
| 18214 | HD 159406 | 17 30.5 | 29 49 | " | " | " | 24.5 | 2327 | 0018 | 2 |
| ~~18215~~ | LB 3869 | 17 53.9 | 28 15 | " | " | " | | 0017 | 0107 | 1 |
| 18215 | AC 75 79 | 19 03.0 | 29 03 | " | " | " | 24.2 | 0111 | 0201 | 1 |
| 18216 | Z Her | 17 53.6 | 15 09 | " | " | " | 24.2 | 0216 | 0231 | 2 |
| 18217 | 44 Cyg | 20 27.2 | 36 36 | " | " | " | 24.2 | 0237 | | 3 |
| | | | | | | | | 42 | | |
| | | | | | | | | 52 | 0307 | 1 |
| 18218 | HD 203733 | 21 19.0 | 29 22 | | | | 24.2 | 0311 | 0341 | 4 |

Dome Temp.
Focus
Dome Temp.

Hour Angle
East
West

Dome Temp. 70
Focus 12.905
Dome Temp. 64

Transparency Conditions Good

Dome relays fail every now & then

| Ending Time E.S.T. P.M. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | 15 08 | <0 | 7.5 | F2 | 3 | 10 minute Setting Lamp | |
| | | | | " | " | 1-1-1 | 15 " | |
| | 0032 E | | | " | | 1-1-1 | 20 " | fair |
| | 0147 W | 15 32 | 0 | 8.5 | G0 | 1-1-1 | AG 25 | good |
| | 0147 W | 29 47 | 0 | 8.2 | M0 | 1-1-1 | " | good |
| | 0217W | [illegible] | | [illegible] | [illegible] | 1-1-1 | " Forgot to pull slide | |
| | 0214W | 2905 | 0 | 7.9 | G0 | 1-1-1 | " Looks pinker than 7 | fair |
| | | 15 08 | 0 | 7.5 | F2 | 1-1-1 | Dewy | good |
| | | 2647 | | 6.9 | F5 Ia | 3 | Set 5 Standard Luminosity | |
| | | | | " | " | 1-1-1 | Set 7 2 exposures only | |
| | | | | " | " | 1-1-1 | set 2 | |
| | | | | 8.2 | G5 | 1-1-1 | Cloud bank in Dome No P-H Locked- What a bad 2 m! Lights out! | Poor Probably Cloudy |

Date 1951 February 5 Observer Wm - Wm R Julian Day 2

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18219 | HD 165445 | 17 [illegible] | -26 [illegible] | I-124 | 103aO | [illegible] | +25°4 | 00 00 | 00 17 | 1 | |
| 18220 | HD 160678 | 17 [illegible] | -29 15 | " | " | " | +25 3 | 00 53 | 01 29 | 2 | |
| 18221 | HD 164895 | 18 07.6 | +30 00 | " | " | " | +25 1 | 01 37 | 02 11 | 3 | |
| 18222 | HD 165767 | 18 07.1 | +29 53 | " | " | " | +25 1 | 02 14 | 02 34 | 4 | |
| 18223 | Zenith | 17 55 | +15 09 | " | " | " | +25 1 | 02 45 | 03 37 | 1 | |
| 18224 | [illegible] | 00 [illegible] | +39 10 | " | " | " | +25 1 | 03 16 | 05 18 | 2 | |
| | Zenith | | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. +71°F
Focus +12.007
Dome Temp. —

Transparency Conditions 200 meters element 139 Mic.

77 74", mirror in balance, ∠ + 5° 16' 12" m. 1' Clear evening. Lib 72 A 1.5 mag.

172

| Ending Time E.S.T. P.M. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W02 36 | +26° 37' | 0-1 | 8.7 | K5 | 2-2-2 | AG-25 Brighter | |
| | W03 02 | +29 15 | 0-1 | 8.7 | K0 | 2-2-2 | AG-25 | |
| | W 03 13 | +30 06 | 0-1 | 8.6? | K2 | 2-2-2 | AG-25. (center of cloud) | |
| | W03 36 | +29 23 | 0-1 | 8.07 | K0 | 2-2-2 | AG-25 | |
| | W 04 13 | +15 09 | 0-1 | 7.5 | ? | 2-2-2 | Operation Begun. Used K0 Instead | |
| | E01 42 | +39 55 | 0-1 | 8.2 | K5 | 2-2-2 | | |
| | | | | | | ±-2½ | O.T.B (DC +31° 15-1. | |
| | | | | | | | 4 P.M | |

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| July 16 | -19.6 | -12.3 | -.8 | +.1 | -14.3 |
| July 18 | -19.3 | -10.6 | +2.0 | +.2 | -26.0 |

173

Thurs - Fri.

**Date** July 9-20 , 1951 **Observer** GE **Julian Day** 243 3847

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle East |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18225 | HD 153882 | 16 45.9 | +24 53 | " | " | " | 42.2 | 21 24 | 21 50 | 1 | |
| 18226 | F Dpl | 17 38.5 | +04 27 | " | " | " | 42.0 | 22:01:20 | 22:01:30 | 2 | |
| | | | | " | " | " | " | 22:05:10 | 22:05:30 | | |
| | | | | " | " | " | " | 22:09:10 | 22:09:30 | | |
| 18227 | A Her | 17 42.4 | +27 47 | " | " | " | 42.0 | 22:13:10 | 22:13:45 | 3 | |
| | | | | | | | | 22:17:10 | 22:17:40 | | |
| | | | | | | | | 22:21:00 | 22:21:30 | | |
| 18228 | AG Star | 18 12.1 | +26 32 | " | " | " | 42.0 | 22 44 | 00 04 | 4 | |
| 18229 | HD 184467 | 19 29.5 | +28 24 | " | " | " | 42.1 | 00 13 | 00 33 | 1 | |
| 18230 | HD 192165 | 20 06.7 | +22 47 | " | " | " | 42.2 | 00 39 | 01 07 | 2 | |
| 18231 | HD 197345 | 20 55.9 | +22 30 | " | " | " | 42.2 | 01 14 | 01 38 | 3 | |
| 18232 | Z Vul | 19 29.6 | +24 59 | " | " | " | 42.3 | 02 06 | 02 32 | 4 | |
| 18233 | HD 199478 | 20 06.4 | +28 24 | " | " | " | 42.3 | 02 40 | 03 14 | 1 | |
| 18234 | HD 3-155 | 22 21.3 | +29 24 | " | " | " | 42.5 | 03 08 | 03 48 | 2 | |
| | Focus Test | 0.7-D | | | | | | | | | |

Dome Temp. +45° F

Transparency Conditions ... some cloud in horizon

Focus .....

Dome Temp. +54° F

| Ending Time E.S.T. | P.H. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | 00 32 W | +26 17 | 0 | 7-99 | K0 | 2-2-2 | P : 25 | |
| | | 00 07½ E | +04 36 | 0 | 3.9 | $K_2$ III | 6 | Yerkes Stand. Luminosity | |
| | | 00 05 E | " | " | " | " | 6 | | |
| | | 00 00 | | | | | 6 | | |
| | | 00 10 W | +27 45 | 0 | 4.3 | K5 III | 6 | " " " | |
| | | 00 15 W | | | | | 6 | | |
| | | 00 22½ W | | | | | 6 | | |
| | | 0 1 .7 W | 2 0 25 | 0 | 8.96 | $K_2$ | 2-2-2 | AG 25 Somewhat cloudy | |
| | | 1 3 W | +55 27 | 0 | 7.70 | K5 | 2-2-2 | Standard Velocity | |
| | | 1 37 W | +35 57 | 0 | 8.07 | K5 | 2-2-2 | AG 25 | |
| | | 1 2 W | +21 51 | 0 | 6.5 | G0 | 2-2-2 | " | |
| | | 04 08 W | +15 08 | 0 | 7.5 | $F_2$ | 2-2-2 | Bright sky. | |
| | | [illegible] | +27 37 | 0 | 5.33 | G5 | 2-2-2 | AG 25 | |
| | | 00 4 W | +21 32 | 0 | 8.24 | K0 | 2-2-2 | " | |
| | | | | | | | 5/3 | 2 F# Standard. Typical Sky | |

Date 19 Jul 2001 Fri/Sat Observer B Julian Day 2 452 848

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18235 | AG 8654 | 17h 10m 2 | +28° 39' | I 26 | 120 | 2.5" | +21.7 | 5h 05m | 23h 31m | 4 | |
| 18236 | HD 173367 | 18 38.8 | +28 02 | " | " | " | +21.5 | 22 46 | 23 24 | 1 | |
| 18237 | γ Dra | 17 54.3 | +51 30 | " | " | " | +21.4 | 23 37 | 2 38 | 3 | |
| 18238 | HD 170951 | 18 27.0 | +25 06 | " | " | " | +21.0 | 23 32 | 00 44 | 3 | |
| 18239 | HD 187691 | 19 46.2 | +10 10 | " | " | " | +21.5 | 00 51 | 01 55 | 4 | |
| 18240 | AG 12 4260 | 21 18.3 | +36 15 | " | " | " | +21.3 | 01 03 | 01 49 | 1 | |
| 18241 | HD 207509 | 21 36.0 | +38 00 | " | " | " | +21.4 | 01 56 | 02 [illegible] | 2 | |
| 18242 | HD 206979 | 21 40.7 | +28 46 | " | " | " | +21.4 | 02 08 | 05 42 | 3 | |
| 18243 | HD 208150 | 21 53.3 | +21 45 | " | " | " | +21.4 | 02 46 | 03 18 | 4 | |
| —— | 2 Peg | 17 53.6 | +15 09 | " | " | " | | | | | |
| 18244 | 15 Peg | 01 57.4 | +19 47 | " | " | " | +21.4 | 03 55 | 04 37 | 1 | |
| | [illegible] | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. +65°F
Focus 112 · 117
Dome Temp. 72 F

Transparency Conditions Latest evening. Haze and light cloudiness.

176

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| [illegible] | +29°37' | 0 | 9.0 | 50 | 1-1-1 | AG-25. Light cloud, [illegible] evening sky. | |
| W 00 17 | +28 03 | 0 | 8.69 | 50 | 1-1-1 | AG-25 Plate 18 [illegible] | |
| — | +5 1 30 | 0 | 3.- | [illegible] | 3 | Hand Exp. 30, 60, 90 sec. Temp. Light [illegible] | |
| W N 50 | +25 07 | 0-1 | 8.95 | MO | 1-1-1 | AG-25. [illegible] | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | |
| E 01 26 | [illegible] 26 | 0 | [illegible] | [illegible] | 3 | MWC 375 | |
| N 00 35 | +29 00 | 0 | [illegible] | 10 | 1-1-1 | AG-25 Cloudy. | |
| [illegible] | +2[illegible] 29 | 0 | [illegible] | 55 | 1-1-1 | AG-25 [illegible] | |
| — | +20 00 | 0 | 6.1 | [illegible] | 3 | [illegible] | |
| | | | | | 1½, 2½ | OTB. | |
| | | | | | | 3¼ Hand, 4 sec Exp. | |
| | | | Sat – July 21-22 | | | Sa-Cr-Sy Cloudy + stormy. 4 visitors | |
| | | | | | | (3 from Welland, 1 from [illegible]) | |

Date 1951 Observer P Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18215 | 90 Aqr | 21h 00m 22s | −00° 48' | 3-12 | 103a-o | 0.068 | 25° | 0 03 | 0 07 | 2 |
| 17 16 | 3 Aqr | 21 22.6 | +15 01 | " | " | " | +25.6 | 01 20 | 01 46 | 3 |
| 17 17 | Radcliffe 9 | 21 50 | +20 59 | " | " | " | +25.4 | 01 51 | 02 24 | 2 |
| — | HD 16,820 | 18 07.3 | +25 17 | " | " | " | — | — | — | — |
| 18 18 | HD 210345 | 22 20.8 | +01 12 | " | " | " | +25.1 | 02 25 | 02 47 | 1 |
| 17 19 | HD 210745 | 21 39.3 | +57 17 | " | " | " | +25.0 | 01 57 | 02 25 | 2 |
| 19 20 | HD 183753 | 19 25.1 | +09 31 | " | " | " | +25.0 | 03 15 | 03 47 | 2 |
| 19 21 | AG +11 1969 | 21 57.6 | +12.4 | " | " | " | +25.0 | 03 53 | 04 13 | 1 |

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 172°F
Focus 12.906
Dome Temp. 163°F

Transparency Conditions Cloudy. Breaks up some times. Too cloudy for t-ing at first but gradually cleared

178

| Ending Time E.S.T. | P.H. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | — | — | 0 | 3.7 | G-K6 | — | Stand. Luminos | |
| | | 4h03m23s | +15°08' | 0 | 7.5 | ? | 1-1-1 | Center. Recentered, exposure, time | good |
| | | N04 Ld | 127 00 | 0 | 7.60 | G0 | 1-1-1 | AG-25. Rolling dim. Exposure + cap | Good |
| | | — | — | — | 8.56 | G0 | — | 6025. Insufficient contrast in RA | |
| | | (CW00 05) | +04 29 | 0-1 | 5.13 | K0 | 3 | Standard. Satellite 15 deg. | fair |
| | | 4 01 07 | +57 39 | 0 | 7.0 | None | 3 | MNC 376. | fair |
| | | 4 04 02 | -25 36 | 0 | 8.19 | K2 | 1-1-1 | AG-25 | poor guiding |
| | | 4 06 00 | 130 27 | 0 | 8.56 | G0 | 1-1-1 | AG-30m. C.I. = +0.55. Wrong star taken | track |
| | | | | | | | | BD +30°4258 = AG-11969. | |
| | | | | | | | 4.2½ | OTB | |
| | | | | | | | | 3-PH Loaded Tape TB | |
| | | | | | | | | July 23 ME -21.3s SE -2.2s KTW +12.2s STW +3.7m SW -6.3s | |

Date Mon.-Tues., July 23-24, 1951 Observer GR Julian Day 243 3851

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18252 | HD 200391 | 20 58.1 | +27 24 | 1.25 | E 103-a-0 .008 | | +24.5 | 22 03 | 00 03 | 2 | |
| 18253 | 187691 | 19 46.2 | +10 10 | " | " | " | +24.2 | 00 10 | 00 22 | 3 | |
| 18254 | 190605 | 20 00.7 | +25 47 | " | " | " | +24.0 | 00 27 | 01 23 | 4 | |
| 18255 | Z Herc | 17 53.6 | +15 09 | " | " | " | +22.4 | 01 41 | 02 31 | 1 | |
| 18256 | HD 200391 | 20 58.1 | +27 24 | " | " | " | +22.2 | 02 38 | 04 08 | 2 | |
| | Focus bot | O.I.B. | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. +66° F

Focus 15.766

Dome Temp. +60° F

Transparency Conditions Delayed by cloud at start 180

July 23/51 changed { 12½ was 25" ✓ from 12.205 15.7+3 to 20.25 left 22.18

| Reading Time E.S.T. | P.H. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | 01 10 E | +27 37 | 0-1 | 8.12 | G0 | 2-2-2 | RJN binary: West-turning dome button | |
| | | 00 20 W | +10 17 | 0 | 5.78 | F8 | 2-2-2 | Standard Velocity. causing delay in mid-exposure | |
| | | 01 17 W | +25 55 | 0 | 8.09 | G5 | 2-2-2 | AG 25 from 22:50 to 23:10 | |
| | | 04 22 W | +15 08 | 0 | 7.5 | F2 | 2-2-2 | Bright binary Temp. control off-point not | |
| | | 02 55 W | +27 37 | 0 | 8.12 | G0 | 2-2-2 | Bright binary working good enough otherwise. | |
| | | | | | | | 6/4 | | |

2 [illegible] 4 [illegible] in box.

Date Tuesday, July 24/25, 1951 Observer W.M. Julian Day 2,433 857½

Dome Temp.
Focus
Dome Temp.

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18357 | HD 164284 (NWC 37B) | 17h55m3 | +4°22' | 1.25 | I-a-0 | .005 (UT) | +26°C | 21 15 | 21 21 | 3 | 1h11 |
| 18358 | HD 200391 | 20 53.1 | +27 24 | " | " | " | +26°C | 21 39 | 00 39 | 4 | |
| 18359 | HD 195407 | 20 26.0 | +36 39 | " | " | " | +25.5°C | 01 05 | 02 15 | 2 | 1h31 |
| 18360 | HD [illegible] | [illegible] | +09 12 | " | " | " | +25.7°C | 00 21 | 02 35 | 2 | |
| 18361 | HD 211553 | 22 12.8 | +25 53 | " | " | " | +25.7°C | 01 40 | 04 00 | 2 | 1h11 |
| | Focus Test | O.T. B. | | | | | | | | | |

Dome Temp. 72.5
Focus 15.802
Dome Temp. 64

Transparency Conditions Some haze

| Ending Time E.S.T. | P.H. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | 0h 46 | +1° 23' | 2 | 4 B | 35 mm | 6 | Bc Prog | good |
| | | 0h 56 | +17° 37' | 2+ | 5 12 | 50 | 2-2-2 | 2 W Sw | Good with fog |
| | | 1h 39 | +36° 15' | 2+ | 7 9 | Dsc | 2-2-2 | Bc Prog | |
| | | 0h 01 | +[illegible] | 2+ | 5 12 | 1.0 | 2-2-2 | [illegible] | fine |
| | | 1h 36 | +[illegible] | 2+ | 7 4 | 1.0 | 2-2-2 | AGAS | v. good |
| | | | | | | | 6/1 | Loss 1 E | |

3 PM [illegible] +10

| | HE | SC | HTW | STW | SPW |
|---|---|---|---|---|---|
| July 25 | -21.3s | +11.2s | +18.5s | +.4m | -21.0s |
| July 24 | -21.2s | +6.7s | -26.2s | -.4m | -36.6s |

HTW advanced 1 minute.

183

Date ..... Observer ..... Julian Day .....

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 15262 | Z Vir | 14h 56.8m | +1° 00' | 1.22 | IIIa-D | 0.05 | +35° | 2h 19m | 00h 40m | 1 |
| 15263 | HD 128[illegible] | 14 39.5 | +[illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| 15264 A | HD 129[illegible] | [illegible] | +27 24 | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| 15265 | HD 131[illegible] | [illegible] | +18 [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| 15266 | β Cas | 00 03.8 | +57 36 | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| 15267 | HD 13661 | 02 08.1 | +51 04 | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| | Focus | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 70°F

Focus 15.750 ← 15.750

Dome Temp.

Transparency Conditions

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | 0 | 8.3 | F2 | 1-1-1 | Clear | fair |
| | | 0 | 7 | K5 | 1-1-1 | Sky Clear. Plate fair | v good |
| | | 0-1 | 5.0 | G0 | 1-1-1 | Clear. | v good |
| | | 0 | 5.2 | F5 | 3 | Hazy | poor quality |
| | | 0 | 2.8 | F8 | 3 | Sky Fair [illegible] | u |
| | | 0 | 8.6 | [illegible] | 1-1-1 | MWC 29 [illegible] | weak |
| | | | | | 1-1 | OTB | |

corner missing on first 2 exp.

focus ok

2 exp. good, rest hazy

Date Sun Mon Jul 19 20 ... 05 Observer ... Julian Day 2423 ...

Dome Temp.
Focus
Dome Temp.

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18268 | HD 195740 | 20 18 3 | +37 10 | " | " | 0.27 | +34.0 | 00 11 | 00 21 | 2 | |
| 18269 | HD 212943 | 22 29.6 | +39 17 | " | " | " | +36.0 | 01 24 | 01 35 | 3 | |
| 18270 | HD 219623 MWC 351 | 23 56.3 | +38 16 | " | " | " | +36.0 | 03 00 | 03 09 | 4 | |
| 18271 | HD 211880 | 22 11.1 | +20 41 | " | " | " | +35.0 | 02 25 | 02 32 | 1 | |
| | Focus Test | | | | | | | | | | |

Focus Focus ... [illegible]

**Dome Temp.** [illegible]

**Focus** [illegible]

**Dome Temp.**

**Transparency Conditions** Some cirrus

| Ending Time E.S.T. | P.M. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | $0^m 14$ | [illegible] | 0 | [illegible] | K2 | 2-2-0 | A 5.5 | too weak |
| | | $0^m 40$ | [illegible] 17 | 0 | 5.3 | K0 | 1-1-2 | [illegible] | fine |
| | | $0^m 37$ | + 35 [illegible] | 0 | 6.1 | [illegible] | 2-2-1 | [illegible] | weak [illegible] fair |
| | | $1^m 59$ | +35 55 | 0+ | 6.6 | S3 | 2-2-2 | A [illegible] | good |
| | | | | | O.T.B. | | 6/4 | focus OK | |

July 30

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| July 30 | $-22.0^s$ | $+11.4^s$ | $-6.5^s$ | $.0^m$ | $+2.3^s$ |

Date 1911 Sept 20-21 Observer S-N-R Julian Day 3854

Dome Temp.
Focus
Dome Temp.

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18272 | NGC 5054 | 13 11.5 | +04 02 | N | [illegible] | — | — | 21 54 | 22 02 | | |
| 18273 | 5904 | 15 16.0 | +02 16 | " | " | " | | 22 10 | 22 18 | | |
| 18274 | 6838 | 19 51.3 | +18 38 | " | " | | | 22 25 | 22 30 | | |
| 18275 | 6779 | 19 14.2 | +30 05 | " | " | — | — | 22 49 | 23 01 | | |
| 18276 | 6712 | 18 50.3 | +08 47 | " | " | — | — | 23 32 | 23 41 | | |

**Dome Temp.** [illegible]
**Focus** —
**Dome Temp.**

**Transparency Conditions** [illegible]

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | | | | | | |
| [illegible] | [illegible] | | | | | [illegible] | [illegible] |
| [illegible] | [illegible] | | | | | [illegible] | |
| [illegible] | [illegible] | | | | | ([illegible]) | |
| [illegible] | [illegible] | | | | | [illegible] | [illegible] |
| | | | | | | This is getting [illegible] | Cloudy |
| | | | | | | [illegible] | |
| | | | | | | [illegible], till hydro men came to repair it | |
| | | | | | | Finally closed 1:15 p.m. EST | |

Date Mar. 1951 Jul. 31 - Aug. 1 Observer S - Gz . N Julian Day 3859

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 18277 | NGC 5904 | 15 16.5 | +02 12 | 1m. | 103a-O | — | — | 21 01 | 21 08 | 1 |
| 18278 | 6284 | 16 51.2 | -24 03 | | | | | 21 11 40 | 21 16 40 | 2 |
| 18279 | 6093 | 16 14.1 | -22 52 | | | | | 21 20 35 | 21 26 35 | 1 |
| 18280 | 6256 | 17 00.7 | -17 44 | | | | | 21 30 40 | 21 45 40 | 2 |
| 18281 | 6838 | 19 51.3 | +18 38 | | | | | 21 52 35 | 21 56 35 | 1 |
| 18282 | 6712 | 18 50.3 | -08 47 | | | | | 22 01 30 | 22 06 30 | 2 |
| 18283 | 6121 | 16 01.2 | -26 18 | | | | | 22 20 30 | 22 25 30 | 1 |
| 18284 | 6712 | 18 50.3 | -08 47 | | | | | 23 32 40 | 23 37 40 | 2 |
| 18285 | 6838 | 19 51.3 | +18 38 | | | | | 23 40 40 | 23 44 40 | 1 |
| 18286 | 6779 | 19 14.6 | +30 05 | | | | | 23 48 30 | 23 53 30 | 2 |
| 18287 | 7089 | 21 30.9 | -01 03 | | | | | 00 00 40 | 00 07 40 | 1 |
| 18288 | 6656 | 18 35.2 | -23 53 | | | | | 00 06 05 | 00 10 05 | 2 |
| 18289 | 6712 | 18 50.3 | -08 47 | | | | | 00 21 30 | 00 31 30 | 1 |
| 18290 | 6981 | 20 39.0 | +12 32 | | | | | 00 36 40 | 00 38 40 | 2 |
| 18291 | 6838 | 19 51.3 | +18 38 | | | | | 00 45 15 | 00 51 15 | 1 |

Dome Temp. 76° F

Transparency Conditions

Focus

Dome Temp.

Focussed on K Cph.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | Clouding | | | | | | 1h 20m |

Date [illegible] Observer S-M-R Julian Day [illegible]

Dome Temp.
Focus
Dome Temp.

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18292 | NGC 7006 | 21 [illegible] | +07° [illegible] | N | [illegible] | — | — | [illegible] | [illegible] | | |
| 18293 | NGC 6254 | [illegible] | -04 02 | | | | | 21 11 | 21 18 | 1 | |
| 18294 | NGC 6333 | 18 01.3 | -00 18 | | | | | 21 19 | 21 35 | 2 | |
| 18295 | NGC 6402 | 17 [illegible] | -03 [illegible] | | | | | 21 39 | 21 43 | 1 | |
| 18296 | NGC [illegible] | [illegible] | +02 12 | | | | | 21 47 | 21 [illegible] | 2 | |
| 18297 | NGC 6333 | 16 [illegible] | -22 06 | | | | | 22 03 | 22 25 | 1 | |
| 18298 | NGC 6205 | 16 41.3 | +18 32 | | | | | 22 40 | 22 44 | 2 | |
| 18299 | 6712 | 18 [illegible] | -0847 | | | | | 22 48 | [illegible] | 1 | |
| 18300 | 6333 | 18 01.3 | -00 18 | | | | | 22 51 | 22 [illegible] | 2 | |
| 18301 | 6838 | 19 51.5 | +18 35 | | | | | 23 18 | 23 22 | 1 | |
| 18302 | 6626 | 18 21.5 | -24 54 | | | | | 23 27 | 23 33 | 2 | |
| 18303 | 6638 | 18 27.8 | -25 32 | | | | | 23 39 | 23 47 | 1 | |
| 18304 | 6656 | 18 29.8 | -23 58 | | | | | 23 50 | 23 54 | 2 | |
| 18305 | 6717 | 18 [illegible] | -22 47 | | | | | 23 57 | 00 01 | 1 | |
| 18306 | 6205 | 16 39.7 | +36 33 | | | | | 00 [illegible] | 00 [illegible] | 2 | |
| 18307 | 6712 | 18 [illegible] | -08 [illegible] | | | | | 00 49 | 00 57 | 1 | |

Dome Temp. 46.0°F

Focus

Dome Temp.

Transparency Conditions

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 02 44W | | | | | | | |
| | 02 41W | | " | | | | | |
| | 02 04E | | VERY POOR | | | | | |
| | 01 32W | | | | | | | |
| | 02 41W | | | | | | | |
| | 02 01W | | | | | | | |
| | 01 16W | | | | | | | |
| | 00 26W | | | | | | | |
| | 01 35W | | | | | | | |
| | 00 07E | | | | | | | |
| | 01 34W | | | | | | | |
| | 01 42W | | | | | | | |
| | 01 44W | | | | | | | |
| | 01 52W | | | | | | | |
| | 02 23W | | | | | | | |
| | 02 30W | | | | | | | |

193

Date..... Observer..... Julian Day.....

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18309 | 6528 | 19 [illegible] 3 | +18 [illegible] | | | | | 01 11 | 01 [illegible] | 1 | |
| 18310 | 7006 | 20 59.1 | +16 [illegible] | | | | | 01 [illegible] | 01 [illegible] | 1 | |
| 18311 | 7013 | 21 07.6 | +11 [illegible] | | | | | 01 [illegible] | 01 [illegible] | 1 | |
| 18312 | [illegible] | 19 51.2 | +18 [illegible] | | | | | 01 56 | 02 [illegible] | 1 | |
| 18313 | 7089 | 21 30.9 | −21 [illegible] | | | | | 02 [illegible] | [illegible] | 1 | |
| 18314 | 7492 | 23 08.7 | −15 [illegible] | | | | | 02 [illegible] | 02 [illegible] | 2 | |
| 18315 | 7492 | 23 08.7 | −15 [illegible] | | | | | 02 54 | 03 [illegible] | 1 | |
| 18316 | 7099 | 21 37.5 | −23 [illegible] | | | | | 03 [illegible] | 03 [illegible] | 2 | |
| 18317 | 7099 | 21 37.5 | −23 [illegible] | | | | | 03 37 | 03 [illegible] | 1 | |

Dome Temp.
Focus
Dome Temp.

Dome Temp.
Focus
Dome Temp.

Transparency Conditions ...average...

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 02 55W | | | | | | | |
| 02 03W | | | | | | | |
| 02 40W | | | | | | | |
| 02 21W | | | | | | | |
| 02 29W | | | | | | | |
| | | | | | | MC SC MTW STW SW | |
| | | | | | | Aug 2 -23.0$^s$ +20.4$^s$ +25.0$^s$ +.5$^m$ -25.0$^s$ | |
| | | | | | | Thurs Aug 2-3 hopelessly cloudy - rain after midnight. | |
| | | | | | | Aug 3. -22.0$^s$ +24.0$^s$ -22.2$^s$ -.3$^m$ -24.8$^s$ | |

Date Sat., Aug 4-5 1951 Observer GZ Julian Day 2363

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18318 | Z Aqr | 17 53.4 | +15 05 | 24 | 103a-D | 0.42 | +12.2 | 22 22 | 22 28 | 3 | 1.46 |
| 18319 | HD 198478 | 20 45 5 | +15 46 | " | " | " | +8.0 | 0 11 | 0 24 | 3 | 1.46 |
| 18320 | 30 Cyg | 21 50.0 | +55 42 | " | " | " | +8.2 | 0 37 | 0 51 | 3 | 1.46 |
| 18321 | 2 Peg | 22 02 4 | +19 40 | " | " | " | +8.2 | 0 2 38 | 0 1 48 | 3 | 1.46 |
| 18322 | 22 Peg | 23 58.0 | +12 00 | " | " | " | +8.3 | 0 1 22 | 0 14 | 3 | 1.46 |
| | Fm | | | | | | | | | | |

Dome Temp. +57°F

Focus 15.495

Dome Temp. [illegible]

Transparency Conditions Very good.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 0 | | F2 | 2-2-2 | Bright Moon. | |
| [illegible] | [illegible] | 0 | 4.9 | Biscd | 2-2-2 | M 11 C 353 | [illegible] |
| [illegible] | [illegible] | 0 | 3.72 | No | 1-2-2 | A C 25 | [illegible] |
| [illegible] | [illegible] | 0 | [illegible] | Ave | 1-2-2 | M [illegible] 397 | [illegible] |
| [illegible] | [illegible] | 0 | [illegible] | Bic | 2-2-2 | M 11 C 407 | [illegible] |
| | | | | | 4/4 | | |
| | | | | | | 2 [illegible] | |

Date [illegible] Observer K Julian Day [illegible]

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 18525 | HD [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 20 [illegible] | 22 [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 23 [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 00 [illegible] | 00 [illegible] | [illegible] |
| [illegible] | HD [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 01 [illegible] | 01 [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 01 [illegible] | 01 [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 01 [illegible] | 01 [illegible] | [illegible] |
| [illegible] | HD [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 02 [illegible] | 02 [illegible] | [illegible] |
| 18530 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 02 [illegible] | 02 [illegible] | [illegible] |
| 18531 | HD [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 03 [illegible] | 31 [illegible] | [illegible] |
| | [illegible] | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. [illegible]F

Focus [illegible] (Dome does not rotate)

Dome Temp. [illegible]

Transparency Conditions Good

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | [illegible] | [illegible] | 0 | [illegible] | [illegible] | [illegible] | [illegible] | good |
| | [illegible] | [illegible] | 0 | [illegible] | F2 | [illegible] | Region [illegible] | |
| | [illegible] | [illegible] | 0 | [illegible] | F2 | [illegible] | [illegible] | |
| | [illegible] | [illegible] | 0-1 | [illegible] | [illegible] | 3 | [illegible] | [illegible] |
| | [illegible] | [illegible] | 0 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| | [illegible] | [illegible] | 0 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| | [illegible] | [illegible] | 0 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| | [illegible] | [illegible] | 0 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| | [illegible] | [illegible] | 0 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| | [illegible] | [illegible] | 0 | [illegible] | [illegible] | 6-4 | OTB | |
| | | | | | | | 1° - [illegible] | |

| | HC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| Aug 7/51 | -23.7$^s$ | +32.8$^s$ | -14.2$^s$ | -11.5$^s$ | +13.3$^s$ |

Date Wed Aug 8 1917 Observer L Julian Day 2 421 867

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18332 | 164 467 | 15 29 5 | 58 24 | I 25 | E 103.0 | S=1 .004 | 24.1 | 22 45 | 23 25 | 4 | |
| 18333 | M.W.C 347 | 20 27.2 | 43 59 | " | " | " | 24.1 | 23 29 | 23 65 | 1 | |
| 18334 | " 350 | 20 34.0 | -02 46 | " | " | " | 24.1 | 00 01 | 00 12 | 2 | |
| 18335 | " 376 | 21 39.3 | 57 17 | " | " | " | 24.1 | 00 20 | 00 40 | 3 | |
| 18336 | H.D. 204 540 | 21 24.2 | 25 31 | " | " | " | 24.0 | 00 47 | 01 20 | 4 | |
| 18337 | " 213947 | 22 20.9 | 20 05 | " | " | " | 24.0 | 01 35 | 02 36 | 1 | |
| | Ros. Field | | | | | O T 13 | | | | | |

Dome Temp. 70 °F

Focus 15.776

Dome Temp.

Transparency Conditions Good

200

Clouds at sunset and early evening. Clearing later.

| Reading Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | 0 42W | 58 28 | 0 | 7.70 | $K_0$ | 2-2-2 | Standard velocity | |
| | | 0 15W | 44 08 | 0 | 7.2 | $B_{1}5c$ | 2-2-2 | Be prog. | |
| | | 0 25W | -02 34 | 0-1 | 6.3 | $B_9e$ | 2-2-2 | " " | |
| | | 0 11E | 57 30 | 0-1 | 7.0 | $B_0ne$ | 2-2-2 | " " | |
| | | 0 52W | 25 44 | 0-1 | 7.58 | $K_2$ | 2-2-2 | A.G. 25 | |
| | | 0 53W | 26 21 | 0 | 8.07 | $K_2$ | 2-2-2 | " " Page. Like velocity. | |
| | | | | | | | 6/+ | Fog and haze increasing | |
| | | | | | | | | 3 Pits loaded, pick bottomed | |
| | | | | | | | | Heat on mirror door during up. | |
| | | | | | | | | MC SC MTW STW SW | |
| | | | | | | | | Aug 10 -25.0$^s$ +38.6$^s$ +12.0$^s$ +.2$^m$ -16.7$^s$ | |
| | | | | | | | | Sat. Aug. 11 some cloud. About ice visitors | |
| | | | | | | | | showed 8 Here with 24-inch; 2 with horizontal | |
| | | | | | | | | N. R. | |
| | | | | | | | | Aug 13 -24.2$^s$ +40.3$^s$ -08.8$^s$ -.4$^m$ -48.3$^s$ | |

Date Fri Aug 17/18 Observer R.a. - R Julian Day 3876

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18338 | Z Her | 17 53.6 | 15 09 | 25" | E.O. | .09 | +21.7 | 2000 | 2145 | 2 | |
| 18339 | RS Vul | 19 13.4 | 22 16 | " | " | " | 21.7 | ~~2215~~ 2215 | 2309 | 3 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 18340 | [illegible] | 17 53.6 | +15 09 | " | " | " | +21.6 | 23 58 | 0 18 | 4 | |
| 18341 | [illegible] | 01 [illegible] | [illegible] | | | | [illegible] | 01 30 | 01 40 | 1 | |
| 18342 | [illegible] | [illegible] | [illegible] | | | | [illegible] | 01 52 | 02 18 | 2 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Dome Temp. 70

Focus 17.727

Dome Temp.

Transparency Conditions Good. Streaks of Cloud

202

Arc not striking

| Ending Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| 1145 | | 0115W | 15 08 | 2-1 | (Vis) 8.3 | F2 | 2-2-2 | Set 3 - Spectrum widened. Light clouds moved | |
| 1209 | | 0119W | 22 22 | 2-1 | (Vis.) 7.0 | B5 | 2-2- | " " " " Cloud all clear at 1 | |
| | | | | | | | | The last plate taken - Cloud developing fast | |
| | | | | | | | | Continues cloudy. Terminated Good pair | |
| 1 | | W 44 | +5 07 | 0 | F2 | B | 2-2-2 | Set 2 Completed. Cloudy. | |
| | | E 2 - 2 | +5 55 | 0 | 1 | K2 | 6 | Set 3 Set 1 - 2 only. Temporary | |
| | | E 2 - 1 | +6 56 | 0 | F2 | F2 | 2 - 2 | Poor Good pair. Slight cloud | |
| | | | | | | | | Continuing. Poor pair | |
| | | | | | | | 6 | Set 2 Completed. Cloudy. | |

| | HC | SC | MTW | STW | SCW |
|---|---|---|---|---|---|
| Aug 15 | -25.2 s | +50.3 s | +0918 s | +0.2 m | +3.3 s |
| " 17 | -20.0 s | +52.9 s | -24.0 s | -.4 m | -8.0 s |

Date Sat Aug 18/19 Observer Pea-Gy-Cr Julian Day 7877

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18343 | Z Her | 17 53.6 | 1509 | 125" | F 103-0 | Sl .008 | 23.0 | 2208 | 2330 | 3 |
| | MWC 320 | 19 41.3 | 05 44 | " | " | " | | 2348 | 2414 | |

Done Temp.
Focus
Done Temp.
Hour Angle End
W

Dome Temp. 63

Focus 15.757

Dome Temp. 63°

Transparency Conditions Cloudy Hazy

About 150 visitors Showed M13 with 74" mirror with 41" Cook

Clock losing very rapidly, the last two nights

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 0300 W | 15 08 | 1 - | 7.5 | F2 | 2-2-2 | This spectrum Woodened Fab Bun. | |
| | 05 52 | | 8.5 | B5Ne | 2- " | Normal length of slit. Be Progress | |
| | | | | | | Spectrum [illegible] by [illegible] at [illegible] | |
| | | | | | | [illegible] | |
| | | | | | | 4 pl [illegible] | |

205

Date Sun.-Mon. Sep 17/33 Observer [illegible] Julian Day 243 2477

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1244 | Z Vul | 19 51.6 | +25 09 | 1-15 | Cramer | 0.035 | +12.2 | 20 45 | 21 22 | 1 |
| 1245 | HD 182491 | 19 46.2 | +20 10 | " | " | " | +20.1 | 21 27 | 22 47 | 2 |
| | HD 182982 | 19 [illegible] | [illegible] | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Hour Angle End

**Dome Temp.** ..................

**Focus** ..................

**Dome Temp.** ..................

**Transparency Conditions** ..................

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | | | | | Quality |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MC | SC | MTW | STW | SW |
| | | | | | | Guy 20. | $-25.6^s$ | $+56.4^s$ | $+4.2^s$ | $+0.2^m$ | $+18.3^s$ |

Date Wed Aug 22 1923, 1951 Observer L. G. Julian Day 234 7 + 1

Dome Temp.
Focus
Dome Temp.

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18346 | Z Herc. | 17 33.6 | 15 09 | T-25 | E#3 | Set .008 | 18.3 | 21 00 | 22 20 | 3 | |
| 18347 | HD. 213014 | 22 23.4 | 16 46 | " | " | " | 18.3 | 23 15 | 01 45 | 4 | |
| 18348 | " 218393 | 23 02.6 | 49 40 | " | " | " | 18.1 | 02 10 | 03 30 | 1 | |
| | Focus test | O.T.B | | | | | | | | | |

Dome Temp. + 59° F

Transparency Conditions Good

Focus 16.690

Dome Temp. + 5 a.m.

Clouds early evening, clearing

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 2 09 W | +5 09 | 0 | 7.5 | F2 | 2-2-2 | big dif. over light [illegible] | f |
| 1 02 " | 17 00 | 0 | 3 1/2 | G5 | 2-2-2 | Landed Veh. [illegible] | f |
| 2. 1 " | +9 5' | 0 | 6 1/2 | [illegible] | 2-2-2 | [illegible] | f |
| | | | | | 2 1/2 | | |
| | | | | | | 3 P.H. Landed. | |

Ending Time P.S.T. P.H.

Date Thurs Aug 23 24/[illegible] Observer HL - Julian Day [illegible]

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18349 | MWC 292 HD 168957 | 18 17.3 | 25 01 | I-25 | E 103aO | 008 | 19.3 | 20 02 | 20 30 | 2 |
| 18350 | MWC 307 HD 174886 | 18 47.7 | -10 21 | " | " | " | 19.2 | 20 35 | 21 53 | 3 |
| 18351 | Z Herc MWC 312 | 17 53.6 | 15 09 | " | " | long 0013 | 19.2 | 22 01 | 23 08 | 4 |
| 18352 | HD 180398 | 19 11.3 | 12 56 | " | " | mea 008 | 19.2 | 23 08 | [illegible] | 1 |
| [illegible] | HD 195407 | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | HD 213 014 | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | HD 206773 | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | HD 218692 | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | HD 12303 | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | HD 19243 | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | HD [illegible] | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | HD [illegible] | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | HD [illegible] | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | HD 31492 | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | HD [illegible] | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] |
| | Totals | | | | | | | | | |

Dome Temp. +64F

Focus 15.697

Dome Temp.

Transparency Conditions Good

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 0 00 | 25 04 | 0 | 6.9 | B5e | 2-2-2 | Be Prog. | fine |
| W 0 52 | -10 16 | 0 | 8.1 | B3e | 2-2-2 | " " | Lwk |
| W 2 57 | 15 10 | 0 | via 7.5 | F2 | 2-2-2 | Sel Bm for Ha | fine |
| [illegible] | 13 02 | [illegible] | 7.7 | [illegible]e | 2-2-2 | Be Prog. | fine |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | wk |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | Lwk |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | Lwk |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | fine |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | Lwk |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | Lwk |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | wk |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | Lwk |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | Too wk |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | Lwk |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | too wk |
| | | | | | | | |

11

Date Fri Aug 24/35 Observer Ba - [illegible] Julian Day [illegible]

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18364 | HD 164042 | 17 54.[illegible] | 27 23 | I 25 | E 103a-O | .058 | [illegible] | 20 10 | 2150 | 1 | 17.[illegible] |
| 18365 | Z Her. | 17 53.6 | 15 09 | " | " | long | [illegible] | 2153 | 2303 | 2 | [illegible] |
| 18366 | HD 187691 | 19 46.2 | 10 10 | " | " | medium .058 | 22.7 | 2308 | 2319 | 3 | |
| 18367 | 197315 | 20 39.? | 29 54 | " | " | " | 22.6 | 2326 | 01 16 | 4 | |
| 18368 | [illegible] | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | 1 | [illegible] |
| 18369 | 12302 | 01 55.6 | +57 12 | " | " | " | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| | [illegible] | G.T.E. | | | | | | | | | |

**Dome Temp.** 66

**Focus** 15.755

**Dome Temp.** +58°F

**Transparency Conditions** Good

| Ending Time E.S.T. | P.H. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| [illegible] | | 147 W | 27 25 | 0-1 | 3.?? | K2 | 1-1-1 | AG | good |
| [illegible] | | 2 59 W | 15 10 | 1-2 | VV 7.? | F2 | 1-1-1 | Eclipsing binary [illegible] | good |
| [illegible] | | | | 1 | 5.73 | F8 | 3 | [illegible] Velocity. Bright aurora. Scattered cloud | fair |
| [illegible] | | 3 33 W | 30 04 | 1 | 8.61 | K2 | 1-1-1 | AG. Scattered cloud. Aurora fading. not numbered | |
| [illegible] | | 2 13 W | +32 5? | 0-1 | 7.? | G? | 2-2-2 | A = 25 | fair |
| [illegible] | | 0 3? W | +33 15 | 2 | 8.2 | B3e | 2-2-2 | Be Temp. MWC 23? | |
| | | | | | | | 8/5 | [illegible] | |

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| Aug 24 '51 | $-26.0^s$ | $+2.9^s$ | $-9.5^s$ | $-0.1^m$ | $-0.5^s$ |

SC & MTW reset.

Date Sat Aug 25-26/51 Observer Bo. L Julian Day 3884

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| 18370 | Z Hercules | 17 33.6 | 15 09 | I 25 | E 103a-O | Set 008 | 23.5 | 21 38 | 22 44 | 1 |
| | | | | | | | | 22 44 | 00 44 | |
| 18371 | HD. 213014 | 22 23.9 | 16 46 | " | " | " | " | 00 45 | 01 18 | 2 |
| 18372 | " 217516 | 22 34.6 | 25 10 | " | " | " | 23.3 | 01 24 | 01 06 | 3 |
| 18373 | " 2839 | 00 26.7 | 27 55 | " | " | " | 23.3 | 01 04 | 02 30 | 4 |
| 18374 | NGC 166 | 00 32.6 | 21 18 | " | " | " | 23.3 | 02 34 | 03 44 | 1 |
| 18375 | M 15 | 21 28.1 | 11 54 | " | " | " | 23.3 | 03 50 | 05 00 | 2 |
| | Focus Set | | | | | O.T.B. | | | | |

Dome Temp. +68°F
Focus 15.762
Dome Temp. +64°F

Transparency Conditions Excellent

| Reading Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| 2244 | 15 | | 15 10 | 2 | 7.8 | Fe | 2-2-2 | Set 2.5 C Lights Binary Instrik | fair |
| | | 4 15 W | | 2-3 | 8.3 | | 2-2-2 | Set 7 Windscreen cutting off | fair |
| | | 0 47 W | 17 01 | 2 | 8.52 | G 8 | 2-2-2 | Standard Velocity | fine |
| | | 0 34 W | 20 26 | 2-3 | 8.47 | K0 | 2-2-2 | A.G. 25 | fine |
| 01 | | 0 02 E | 23 15 | 3 | 8.23 | G | 2-2-2 | " " NF 4 stable | Smeat |
| | | 1 06 W | 25 36 | 3-2 | 8.09 | G5 | 2-2-2 | " " | good |
| | | 0 16 W | 24 16 | 2-1 | 8.1 | B3e | 2-2-2 | 30 prog | much Cir |
| | | | | | | | G/4 | | |
| | | | | | | | | 2 PMs dropped + 8 more stay | |
| | | | | | | | | Aug 27 MQ −25.8 s SC +06.2 s 4TW +06.5 s 5TW +0.2 m 5W +20.9 s | |

**Date** Tues Aug 28-29/51 **Observer** Hd - R **Julian Day** 2,433,887

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18376 | MW 308 HD 175863 | 18 52.3 | 59 53 | I 25 | E-300 | .008 | 24.7 | 21 18 | 22 38 | " | [illegible] |
| This star identified as | HD 32774 | 05 00.5 | +62 21 | | | | | | | | |

Dome Temp.....
Focus 15.794
Dome Temp.....

Transparency Conditions V poor.

Dirty sky at sunset. Later improving some.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W 1 53 | 59 56 | 0-1 | 6.9 | B4e | 2-2-2 | Clouds 2120-2140, 4 repeatedly: Thick at 2230 Closed 2330. | |
| | | | | | | | numbered 183378 | |
| | | | | | | | numbered 183379 | |
| | | | | | | | numbered 18330 | |
| | | | | 6.88 | A5 | | | |
| | | | | | | | HC SC MTW STW SW | |
| | | | | | | | Aug 21 +24.6 s +08.7 s +24.0 s +.5 m 0.0 s | |

217

Date ..... Observer ..... (R) Julian Day .....

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. [illegible] F

Focus [illegible]

Dome Temp. 72° F

Transparency Conditions [illegible]

[illegible]

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 2-2-2 | [illegible] | [illegible] |
| [illegible] | 15 [illegible] | [illegible] | [illegible] | [illegible] | 2-2-2 | " [illegible] | [illegible] |
| | | | | | | [illegible] | |
| | | | | | [illegible] | [illegible] | |
| | | | | | | [illegible] | |
| | | | | | | [illegible] | |
| | | | | | | | |
| | | | | | | Aug 31/50 HC -23.8 s, SC +21.3 s, NTW -18.8 s, STW -.3 m, SW -19.8 s | |
| | | | | | | | |
| | | | | | | Sat Sept 1-2, 1951 Hd-R | |
| | | | | | | about 20 visitors Cloudy. | |

Date Thurs. Sept 3-4, 1931 Observer Hd-B Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| 18384 | MW 310 HD 177648 | 19 00.5 | 23 11 | I-25 | E 10300 | 008 | 21.5 | 20 05 | 20 49 | 4 |
| 18385 | MW 312 HD 180398 | 19 11.3 | 12 56 | " | " | " | 21.6 | 20 55 | 22 05 | 1 |
| 18386 | MW 317 HD 183143 | 19 23.0 | 1 8 05 | " | " | " | 21.3 | 22 11 | 23 11 | 2 |
| 18387 | MW 320 | 19 41.3 | +5 44 | " | " | " | | 23 19 | 01 19 | 3 |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 18392 | Focus Test | | | I-12 | | | 18.5 | | | 1 |

Dome Temp. 68F

Transparency Conditions Good.

Focus 15.732

Dome Temp. +21°F

new end to hand wind, one way of dec. quicker motion now has only spot sensitivity.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| N 0 17 | 23 15 | 0 | 6.9 | B3e | 2-2-2 | Be Prog | fine |
| N 1 23 | 13 01 | 0-1 | 7.7 | B(3)e | 2-2-2 | " spots spoiled | fine |
| N 2 18 | 18 14 | 1 | 6.9 | B5e α | 2-2-2 | " * do not look as red as usual. | good |
| N 0 4 08 | +05 55 | 0 | 8.5 | B5e | 2-2-2 | " | good |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | fine |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | fine |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | fine |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | fine |
| N 0 24 | +12 12 | 0 | 6.5 | B-e | 2-2-2 | [illegible] | good |
| | | | | | 6-4 | OTB | |
| | | | | | | + BH [illegible] | |
| | | | | | | I-12 | |
| | | | | | | I-25 was set Focus | 12.85 - 12.925 |
| | | | | | 5/3 | Hd Sept 4, 1951 Focus 15.732 " 4 | 12.925 |
| | | | | | | changed to I-12 Tilt 23.18 Tilt 20.25 | |
| | | | | | | Set focus at 12.930. | |
| | | | | | | Spot 4 Hc -248 s Sc +21.1 s HTW +17.2 s STW +.2 m | SW 9 -23.7 |

Date ... Observer ... Julian Day ...

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 18393 | HD 10[illegible]72 | 1[illegible] | +2[illegible] | | | | | | | |
| 18 | AG [illegible] | | | | | | | | | |
| 18 | HD [illegible] | | | | | | | | | |
| 18 396 | HD 21[illegible] | | | | | | | | | |
| 18 397 | HD 20[illegible] | | | | | | | | | |
| 18 398 | BD 13[illegible] | | | | | | | | | |
| 18 399 | [illegible] | | | | | | | | | |
| 18 400 | [illegible] | | | | | | | | | |
| | [illegible] | | | | | | | | | |

Dome Temp. [illegible]
Focus [illegible]
Dome Temp. + [illegible]

Transparency Conditions [illegible]

(1) [illegible]
(2) [illegible]
(3) [illegible]

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
| --- | --- | --- | --- | --- | --- | --- | --- |
| [illegible] | [illegible] | [illegible] | [illegible] | K0 | [illegible] | AS [illegible] | good |
| 1 34 | +28 17 | 0 | 8.4 | G0 | 1-1-1 | AS 25 | fine |
| 0 50 | +27 11 | 0 | 8.0 | K5 | 1-1-1 | AS 25 | p.g. (good) |
| 0 34 W | +17 02 | [illegible] | 8.5 | G5 | 1-1-1 | [illegible] | [illegible] |
| 1 55 W | +25 [illegible] | 0 | [illegible] | [illegible] | 1-1-1 | AS 25 | [illegible] |
| 2 16 W | + [illegible] 33 | [illegible] | [illegible] | G5 | 1-1-1 | AS 25 | [illegible] |
| [illegible] 30 W | +27 [illegible] | [illegible] | [illegible] | G5 | 1-1-1 | AS 25 | [illegible] |
| [illegible] 11 W | +30 25 | [illegible] | [illegible] | — | 1-1-1 | AS 25 [illegible] | fine |
| | | | | | 5/3 | | [illegible] |

Sept 7/51 · MC $-24.5^s$ SC $+21.9^s$ MTW $-04.5^s$ STW $0.0^m$ SW $+1.4$

Date Sept 7/8 1951 Fri/Sat Observer Latta — R Julian Day 3897

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18401 | HD 172311 | 18 34.4 | 28 13 | 5-12" | E 103a O | Set .008 | 14.4 | 20 44 | 21 54 | 2 |
| 18402 | 190470 | 20 00.0 | 25 30 | " | " | " | 14.4 | 22 13 | 23 09 | 3 |
| 18403 | 208987 | 21 55.0 | 29 25 | " | " | " | 14.3 | 23 16 | 00 16 | 4 |
| 18404 | 209999 | 22 02.2 | 27 51 | " | " | " | +14.3 | 00 21 | 01 35 | 1 |
| 18405 | HD 8779 | 01 21.4 | -00 55 | " | " | " | +14.3 | 01 43 | 02 03 | 2 |
| 18406 | Cas | 00 03.8 | +58 36 | " | " | " | +15.3 | 02 15 | 02 20 | 3 |
| 18407 | HD 15256 | 02 42.3 | +29 26 | " | " | " | +14.4 | 02 32 | 02 52 | 4 |
| 18408 | HD 42397 | 06 05.4 | +25 02 | " | " | " | +14.4 | 03 04 | 03 56 | 1 |
| 18409 | HD 49141 Focus test | 06 41.9 | +26 49 | " | " | " | +14.5 | 04 08 | 05 18 | 2 |

Dome Temp. 52.
Focus 12.932
Dome Temp. +49°F

Transparency Conditions Variable low

On opening up found contacts hard to slide, part of (5) carriage bolts, a layer of Bakelite completely unstuck, (6) Ballast resistor in charger broken. Replaced resistor with the heating element from warming room. All controls functioning OK & battery charged

| Ending Time E.S.T. | P.H. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | W2 05 | 28 14 | 0 | 8.91 | KO | 1-1-1 | AG25 Allowing 1 Mag | fair |
| | | W1 55 | 25 39 | 0 | 8.51 | KO | 1-1-1 | " | stars |
| | | W1 06 | 29 39 | 0 | 8.68 | K2 | 1-1-1 | " | fair |
| | | W02 20 | +28 05 | 0 | 8.93 | KO | 2-2-2 | AG25 Good transparency. Flashlight defunct | fair |
| | | E00 22 | +00 38 | 0 | 7.49 | KO | 1-1-1 | Standard. | stars |
| | | W 01 03 | +58 53 | 0 | 5.4 | F2 | 3 | Stand. Illum. 8, 16, 24 sec. | stars |
| | | E00 15 | +29 40 | 0 | 7.55 | G0 | 1-1-1 | AG25 | stars |
| | | E03 21 | +25 02 | 0 | 8.56 | G5 | 1-1-1 | AG25 | fair |
| | | E02 38 | +26 46 | C | 9.0 | A0 ~~G0~~ | 1-1-1 | AG25 A0 * taken<br>Another star may be taken A0.<br>G0 star is E and N of A0 *.<br>OTB<br>2PH Bored. 8 sec Def | fair |

Date Sun-Mon Sept 9-10/51 Observer Hall, Ha- Julian Day 3897

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 18410 | 89 Herc | 17 51.4 | 26 04 | I-12 | E103a0 | 008 | 22.3 | 19 31 | 19 33 | 3 |
| | | | | | | | | 19 34 | 19 38 | |
| | | | | | | | | 19 39 | 19 47 | |
| 18411 | H.D. 173367 | 18 39.8 | 28 00 | " | " | " | 21.2 | 19 59 | 20 57 | 4 |
| 18412 | HD 189317 | 19 54.3 | 28 20 | " | " | " | 21.6 | 21 06 | 21 44 | 1 |
| 18413 | HD 180398 MW 312 | 19 11.3 | 12 56 | " | " | " | 21.3 | 21 56 | 22 36 | 2 |
| 18414 | γ Cyg | 20 18.6 | 39 56 | " | " | " | | 22 42 20 | 22 42 50 | 3 |
| | | | | | | | | 22 45 30 | 22 41 30 | |
| | | | | | | | | 22 47 20 | 22 49 20 | |
| 18415 | 41 Cyg | 20 25.3 | 30 02 | " | " | " | 21.2 | 22 57 00 | 22 57 45 | 4 |
| | | | | | | | | 22 58 30 | 23 00 00 | |
| | | | | | | | | 23 00 30 | 23 03 30 | |
| 18416 | β Del | 20 32.9 | 14 15 | | | | | 23 10 20 | 23 10 40 | 1 |
| | | | | | | | | 23 11 45 | 23 11 25 | |
| | | | | | | | 21.2 | 23 13 15 | 23 14 35 | |
| | | | | | (Green) | | | | | |

Dome Temp. 76 F
Focus 12.930
Dome Temp.

Sat. Sept 5, 1951 - About 100 visitors; 62" Mm about 4 Cyanw 474; 8 Ac through 4". All this thru haze & cloud

Transparency Conditions Good at first



| Ending Time E.S.T. P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| 33 | | 26 05 | 0 | 5.9 | F2 Ia | 4 set 1 | Std. Lum. | |
| 38 | | | | | | 4 " 5 | | |
| 47 | D 49 | | | | | 4 " 9 | | |
| 59 | 1 13 | 28 03 | | 8.61 | K0 | 1-1-1 | NG spots spoiled | poor |
| 44 | 0 44 | 28 28 | | 8.19 | G5 | 1-1-1 | NG | |
| 36 | 2 19 | 13 01 | | 7.7 | B3 | 1-1-1 | Bad Pair - Sky gradually falling in. | |
| 42 | | | | 2.9 | F8 Ib | 4 set 1 | Std Lum. | |
| 48 | | | | | | 4 " 5 | | |
| 49 20 | 11 25 | 40 06 | | | | 4 " 9 | | |
| 57 45 | | 30 08 | | 4.5 | F5 II | 4 | set 1 Std Lum. | |
| 23 00 00 | | | | | | 4 | " 5 | |
| 03 | | | | | | 4 | " 9 | |
| 10 | | | | 4.1 | F5 III | 4 | set 1 Std Lum. | |
| 21 11 15 | | | | | | 4 | " 5 | poor |
| 37 N.E. | 1 37 | 14 25 | | | | 4 | " 9 | |

Date Sept 9-10 Contd Observer Hd, Hk, -C Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| 18417 | HD 205655 | 21 52.7 | 28 21 | 3½ | E.300 | 008 | | 23 25 | 00 15 | 2 |
| 18418 | " 213014 | 22 27.4 | 16 46 | " | " | " | | 00 20 | 01 14 | 3 |
| | Blank Slot | | | | | | | 0.TC | | |

Done Temp.
Focus
Done Temp.
Elec Angle End

Dome Temp.

Focus.

Dome Temp.

Transparency Conditions

| Ending Time E.S.T. | P.H. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sept 10 MC $-24.8^s$ SC $+31.7^s$ MTW $-17.8^s$ STW $-.4^m$ | SW $-11.2^s$ |

Tues

Date Sept 11/12, 1951 Observer Wm, Ha – L Julian Day 3901

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 18419 | H.D. 168622 | 18 15.6 | 27 28 | I-12 | F103a-O | set 008 | 25.6 | 20 08 | 21 28 | 4 |
| 18420 | HD 196034 | 20 29.7 | 25 17 | " | " | " | 25.5 | 21 36 | 22 36 | 1 |
| 18421 | AG 12834 | 21 39.6 | 26 04 | " | " | " | 25.4 | 22 53 | 00 03 | 2 |
| 18422 | " 13194 | 22 03.6 | 26 33 | " | " | " | 25.1 | 01 00 | 02 24 | 3 |
| 18423 | M.W.C. 49 | 02 24.4 | 70 30 | " | " | " | 25.1 | 02 34 | 03 10 | 4 |
| 18424 | H.D. 15853 | 02 27.9 | 46 16 | " | " | " | 25.3 | 03 18 | 03 54 | 1 |
| 18425 | " 19551 | 03 03.6 | 12 29 | " | " | " | 25.3 | 03 57 | 04 31 | 2 |
| 18426 | " 21112 | 03 19.7 | 12 09 | " | " | " | 25.3 | 04 35 | 05 05 | 3 |
| | Focus Test | | | | | 0 | T B | | | |

Dome Temp. 72°F

Focus 12.930

Dome Temp.

Transparency Conditions fair

230

Starting delayed due to telescope drifting in Dec
Now using dec clamp.

| Ending Time E.S.T. | P.M. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| 21 28 | | 2 +4 | 27 29 | 0 | 8.93 | K0 | 1-1-1 | AG 25 PA guiding motion sticking; temporarily cured by jamming planetary gear with cardboard | fair |
| 22 36 | | 1 08 | 25 27 | 0 | 8.64 | K5 | 1-1-1 | AG 25 | |
| 23 43 | | 1 25 | 26 18 | 0 | 8.89 | G5 | 1-1-1 | AG 25 R.A guiding sticking almost entirely cured | |
| 02 24 | 3 | 22 W | 26 47 | 0 | 8.96 | G5 | 1-1-1 | " " R.A. repaired by Kaye | |
| 03 04 | | 15 E | 70 43 | 0 | 8.0 | B4he | 1-1-1 | Be pairs. | |
| 03 17 | | 27 W | 46 28 | 0 | 8.0 | A0 | 1-1-1 | K.A. 22 | |
| 03 [illegible] | | 29 W | 12 41 | 0 | 7.54 | G5 | 1-1-1 | " 71 | |
| 03 [illegible] | | 47 W | 12 19 | 0 | 7.6 | A0 | 1-1-1 | " " | |
| | | | | | | | 4/3 | 1 P.H. broken; 4 plates. | |

Date Wed Sept 12-13, 1951 Observer Ka-R Julian Day 3902

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18427 | HD 161196 | 17 37.1 | 2942 | 12 | [illegible] | [illegible] | 26.4 | 19 24 | 20 40 | |
| 18428 | AC 10077 | 19 24.3 | 25 [illegible] | " | [illegible] | " | 26.2 | 20 44 | 22 44 | |
| 18429 | HD 204935 | 21 26.8 | 27 56 | " | [illegible] | " | 26.1 | 22 48 | 00 12 | 2 |
| 18430 | HD 267740 | 5.1 46.1 | +28 18 | " | " | " | +26.0 | 00 16 | 01 00 | 3 |
| 18431 | HD 212943 | 22 22.8 | +04 12 | " | " | " | +26.2 | 01 11 | 01 17 | 4 |
| 18432 | HL 217852 | 22 55.5 | +31 07 | " | " | " | +26.2 | 01 38 | 02 10 | 1 |
| 18433 | Plate | 00 03.8 | +58 36 | " | " | " | +26.0 | 02 15 | 02 28 | 2 |
| 18434 | HD 5071 | 00 47.5 | +60 08 | " | " | " | +26.0 | 02 29 | 03 03 | 3 |
| 18435 | HD 15472 | 02 24.4 | +70 30 | " | " | " | +26.2 | 03 15 | 03 59 | 4 |
| 18436 | HD 18328 | 02 51.6 | +29 19 | " | " | " | +26.3 | 04 07 | 05 21 | 1 |
| | Focus Test | | | | | | | | | |

Dome Temp.
Focus
Dome Temp.

Hr. Angle
End

Dome Temp. 74

Focus 12.932

Dome Temp.

Transparency Conditions Hazy

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 21 W | 29 41 | <0 | 8.82 | M3 | 1-1-1 | A325 | fair |
| | 22 W | 25 19 | 0 | 8.[illegible] | [illegible]0 | 1-1-1 | [illegible] | v poor |
| | W01 51 | 28 09 | 0 | 8.[illegible] | K0 | 1-1-1 | [illegible] | fair |
| | 02 20 | +28 33 | 0 | 8.20 | G5 | 1-1-1 | AG-25 | fair |
| | 02 00 | +27 28 | 0 | 5.93 | K0 | 3 | [illegible] | OT exp |
| | 02 16 | +31 32 | 0 | 7.93 | F2 | 1-1-1 | KA 67 [illegible] | [illegible] |
| | 01 22 | +55 53 | 0 | 7.8 | F2 III | 3 | [illegible] 5, 15, 45 sec [illegible] | |
| | 01 20 | +60 18 | 0 | 7.87 | A2 | 1-1-1 | KA 8. [illegible] | fair |
| | 00 38 | +70 44 | 0 | 8.0 | BAne | 1-1-1 | MWC +9. | [illegible] |
| | W01 35 | +29 33 | 0 | 8.89 | G5 | 1-1 | AG-25 | [illegible] |
| | | | | | | 4-3 | OT B. | c & violet |
| | | | | | | | BPH [illegible] | |

| | MTW | SC | MTC | STW | SW |
|---|---|---|---|---|---|
| Sept 13 | +20.0° | +36.3' | -24.5s | +0.4m | -34.8s |
| 14 | — | — | -29.2 | +0.05m | +16.3s |

Date Tri Sept. 14-15, 1951 Observer (HL) : Ha Julian Day 37-4

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.J. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18437 | H.D. 218660 | 23 04.7 | 29 08 | J-12 | E 103a-O | set 1.08 | 20.2 | 00 13 | 00 39 | 2 | |
| 18438 | H.D. 3765 | 00 35.3 | 39 40 | " | " | " | 20.2 | 00 49 | 01 49 | 3 | |
| 18439 | H.D. 8779 | 01 21.4 | -00 55 | " | " | " | 20.0 | 02 03 | 02 32 | 4 | |
| 18440 | H.D. 15472 MWC 49 | 02 24.4 | +70 30 | " | " | " | 20.0 | 02 49 | 03 21 | 1 | |
| 18441 | χ Peg | 00 09.4 | 19 39 | " | " | " | 20.0 | 03 32 | 03 37 | 2 | |
| 18442 | H.D. 19647 | 03 04.7 | 16 26 | " | " | " | 20.0 | 03 57 | 04 23 | 3 | |
| 18443 | H.D. 21051 31142 | 03 18.7 | 17 17 12 09 | " | " | " | 20.0 | 04 38 | 04 50 | 4 | |
| | Cam. 10cl | | | | | | | | | | |

Dome Temp. 62 F
Focus 12.930
Dome Temp. 56 F

Transparency Conditions Good between clouds. 234
Cloudy till 23 00 Opened 23.15. Clouds again

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 0 47 | 29 24 | 0 | 7.75 | K0 | 1-1-1 | K.A. | fair |
| 0 27 | 39 56 | 0 | 8.5 | K2 IV | 1-1-1 | Standard ~~brightness~~ velocity | |
| 0 24 | -00 38 | 0 | 7.49 | K0 | 1-1-1 | Standard Velocity | |
| 0 13 | 70 44 | 0 | 7.0 | B4ne | 1-1-1 | | strong |
| 2 41 | 19 56 | 1 | 6.2 | M2 III | 1½-1½ | Standard Luminosity | |
| 0 31 | 16 37 | 0-1 | 7.7 | A0 | 1-1-1 | K.A. | fair |
| 0 45 | 12 28 | 0 | 7.0 | G5 A0 | 1-1-1 | K.A. wrong star taken | strong |
| | | | | | 4-3 | 36 PH leaded and need a new tube | |

235

H/R = Hawker.

Sun.

**Date** Sept 16/17 1951 **Observer** Fra - Hr **Julian Day** 3906

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18444 | HD 157294 | 17 17.3 | 26 09 | 12" | | | 18.3 | 1921 | 2021 | 1 |
| 18445 | AG 8879 | 17 21? | 27.21 | " | " | " | 18.1 | 2023 | 2149 | 2 |
| 18446 | HD 189753 | 19 54.5 | 26 52 | " | " | " | 18.0 | 2153 | 00 23 | 3 |
| 18447 | " 210789 | 22 07.7 | 24 59 | " | " | " | 17.9 | 00 30 | 01 14 | 4 |
| 18448 | " 213014 | 22 23.4 | 16 46 | " | " | " | 18.0 | 01 22 | 02 05 | 1 |
| 18449 | " 7331 | 01 08.4 | 60 24 | " | " | " | 18.0 | 02 10 | 02 54 | 2 |
| 18450 | " 14207 | 02 12.7 | 13 00 | " | " | " | 17.8 | 02 43 | 03 07 | 3 |
| 18451 | " 17608 | 02 38.6 | 27 33 | " | " | " | 17.9 | 03 10 | 03 36 | 4 |
| 18452 | " 21149 | 03 18.1 | 60 22 | " | " | " | 17.9 | 03 50 | 04 16 | 1 |
| 18453 | " 22300 | 04 03.6 | 19 21 | " | " | " | 17.9 | 04 24 | 04 48 | 2 |
| | From 10 | | | | | OTB. | | | | |

Dome Temp. 60

Focus 12.930

Dome Temp. 50°F

Transparency Conditions Good.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 2.25 W | 26 01 | 0-1 | 8.84 | K0 | 1-1-1 | | l. thin |
| 2.49 W | 29 22 | 0-1 | 8.89 | K0 | 1-1-1 | Clouds coming up 2045–2100 | thin |
| 3.48 W | 27 [illegible] | 0 | 8.91 | K5 | 1-1-1 | RA changed. Interrupted by cloud 2045–2100 2220–2235 | f |
| 2.28 W | 25 15 | 0-1 | 8.75 | K0 | 1-1-1 | AG 25 " " | fair |
| 3.03 W | 17 02 | 0-1 | 8.52 | G8 | 1-1-1 | Standard Velocity | l. thin |
| 1.47 W | 60 37 | 0-1 | 7.88 | F5 | 1-1-1 | 15 A. 8 | too thin |
| 0.16 W | 13 12 | 0-1 | 7.90 | A5 | 1-1-1 | K.A. 70 | thin |
| 0.10 W | 27 49 | 0-1 | 8.0 | A2 | 1-1-1 | " 46 | thin |
| 0.14 W | 60 13 | 0-1 | 7.72 | A2 | 1-1-1 | " 9 | thin |
| 0.16 W | 14 36 | 0-1 | 7.9 | A2 | 1-1-1 | " 72 | fair |
| | | | | | 4/3 | | |
| | | | | | | 2 Pk. Contl. photographed. | |

Sept. 15-16 .75 inches, cloudy; finish [illegible] HE SE HW SW

Sept 17 −23.8s −28.1s +13.8s −.2m −37s

Sept 17-18 Hd Clouds coming up at sunset. Rain at 2100

Date Tues. Sept 19, 1911 Observer W. H. L Julian Day 2 418 [illegible]

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle Mid |
|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | AG 109 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 19 13 | 20 [illegible] | | |
| [illegible] | AG 9945 | [illegible] | [illegible] | [illegible] | [illegible] | " | [illegible] | 20 27 | [illegible] | | |
| [illegible] | HD 209 [illegible] | 21 03.9 | [illegible] | [illegible] | [illegible] | " | [illegible] | 21 [illegible] | [illegible] | | |
| [illegible] | HD 209 957 | [illegible] | [illegible] | [illegible] | [illegible] | " | 19.0 | 23 04 | 00 14 | | |
| 18458 | " 21975 | 22 32.3 | 29 12 | " | " | " | 18.8 | 00 25 | 01 05 | 3 | 3W |
| 18459 | " 3765 | 00 36.3 | 39 40 | " | " | " | 18.9 | 01 42 | 02 12 | 4 | 4W |
| 18460 | " 11095 | 01 44.0 | 43 48 | " | " | " | 18.9 | 02 15 | 02 37 | 1 | 1W |
| 18461 | " 15705 | 02 26.4 | 28 08 | " | " | " | 19.0 | 02 49 | 03 11 | 2 | 2W |
| 18462 | " 17470 | 02 43.0 | 32 26 | " | " | " | 19.0 | 03 22 | 03 44 | 3 | 3W |
| 18463 | " 20579 | 03 13.6 | 27 11 | " | " | " | 19.0 | 03 55 | 04 17 | 4 | 4W |
| 18464 | " 27145 | 04 12.1 | 13 36 | " | " | " | 19.0 | 04 35 | 04 47 | 1 | 1W |
| | Focus Test | | | | | | O.T.B. | | | | |

Focus Temp.
Focus
Focus Temp. +1

Dome Temp.....

Focus.....

Dome Temp. +52° F.

Transparency Conditions .....

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | good |
| | 1 55 | | | | | 1-1-1 | guiding off | |
| | 1 17 | | | | | 1-1-1 | | fair |
| | 1 45 W | | 1- | | K5 | 1-1-1 | | fair |
| | 2 23 W | 29 27 | 0-1 | 8.01 | G5 | 1-1-1 | | fair to poor |
| | 1 06 W | 39 56 | 1 | 8.52 | K5 | 1-1-1 | Standard Velocity. | poor |
| | 0 22 W | 47 05 | 1 | 8.0 | A0 | 1-1-1 | K.A. 21 | strong |
| | 0 15 W | 28 22 | 1 | 8.0 | A0 | 1-1-1 | K.A 46 | strong |
| | 0 30 W | 32 38 | 1 | 7.9 | A0 | 1-1-1 | K.A. H6 | fair strong |
| | 0 33 W | 27 22.5 | 1 | 7.8 | A0 | 1-1-1 | K.A. 47 | strong |
| | 0 05 W | 13 44 | 1 | 7.8 | G5 | 1-1-1 | K.A. 72 | fair strong |
| | | | | | | 4/3 | | |

3 Plts Loaded

plates needed during dome:

| | HC | SC | HTW | STW | SW |
|---|---|---|---|---|---|
| Spotlg | -23.0$^s$ | +49.9$^s$ | -14.0$^s$ | -.3$^m$ | -24$^s$ |

Date ... Observer ... Julian Day ...

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18465 | AD 16124 | | | | | | | 17 30 | 2040 | 2 |
| 18466 | AG 7585 | | | | | | 22.0 | 20 43 | 2213 | 3 |
| 18467 | AG 12158 | 21 [illegible] | 29 58 | " | " | " | 21.9 | [illegible] | 2370 | 4 |
| 18468 | HD 209543 | 21 59.1 | 26 23 | " | " | " | 21.9 | 23 27 | 00 31 | 1 |
| 18469 | HO 9138 | 01 24.9 | 05 38 | " | " | " | 22.0 | 00 39 | 00 45 | 2 |
| 18469F | Focus test on a separate plate since clouded up after last plate was loaded. This plate is not numbered. | | | | | | | O.T.B. | | |

Dome Temp.... 63

Focus..... 12.370

Dome Temp.... 62

Transparency Conditions Scattered clouds clearing after sunset. Hazy

00 50 - clouds coming up quickly from north.

01 10 sky 3/10 cloudy closing in quickly.

01 40 cloudy closed up.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W0154 | 26 10 | 0 | [illegible] | G0 | 1-1-1 | A-25 | strong |
| W0243 | 28 33 | 0 | 8.7c | G0 | 1-1-1 | " = crossing Dec | v good |
| W0150 | 30 10 | 0-1 | [illegible] | G0 | 1-1-1 | Dec cross over and [illegible] Temperature [illegible] | strong |
| W02 05 | 26 42 | 0-1 | 8.70 | K0 | 1-1-1 | | strong |
| E 01 07 | 05 54 | 0 | 6.19 | K4 | 1-1-1 | Standard Velocity | low Temp |
| | | | | | 4/3 | | |

1 PH loaded

8 plates in box in darkroom in dome

Date Thurs Sept 20-21/51 Observer Kid-L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 18470 | ι Peg | 22 02.4 | 24 51 | 1:12 | E103aO | 008 | | 22 52 | 22 52 30 | 4 |
| | | | | | | | | 22 53 30 | 22 54 30 | |
| | | | | | | | 21.2 | 22 56 | 22 58 | |
| 18471 | δ Peg | 22 47.3 | 9 18 | " | " | " | | 23 10 | 23 12 | 1 |
| | | | | | | | | 23 13 | 23 17 | |
| | | | | | | | 21.2 | 23 18 | 23 26 | |
| 18472 | HD210923 | 22 08.6 | 33 06 | " | " | " | | 23 38. | 23 58 | 2 |
| 18473 | " 223892 | 23 48.3 | 44 44 | " | " | " | 21.1 | 00 06 | 00 31 | 1 |
| 18474 | " 5049 | 00 47.3 | 46 35 | " | " | " | 21.1 | 00 54 | 01 20 | 4 |
| 18475 | " 5373 | 00 50.5 | 46 07 | " | " | " | 21.1 | 01 28 | 01 54 | 1 |
| 18476 | " 9224 | 01 25.7 | 28 54 | " | " | " | 21.0 | 02 22 | 02 48 | 2 |
| | Green Fax | | | | | 0 T 13 | | | | |

Dome Temp. 65 F
Focus 12.932
Dome Temp.

Transparency Conditions Poor.

Thick cirrus at first. Improving about 2200.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | 0 | 4.4 | $F_5\bar{V}$ | 4 | Std. Std hum. | fine |
| | | | 0 | | | 4 | 5 | |
| | W 0 32 | 25 07 | 0 | | | 4 | 9 | |
| | | | 0 | 5.7 | $F_6\bar{V}$ | 4 | Set 1 Std hum. | fine |
| | | | 0 | | | 4 | 5 | |
| | W 0 15 | +9 35 | 1 | | | 4 | 9 | |
| | 126W | 33 22 | 1 | 7.88 | $G_0$ | 1-1-1 | K.A. Perfect guiding at moderate mag. | good |
| | 0 20W | 45 04 | 1 | 7.98 | $A_0$ | 1-1-1 | KA 43 $H_\alpha$, light clouds. | good |
| | 0 10W | 46 52 | 1 | 7.9 | $A_0$ | 1-1-1 | | fine |
| | 0 10W | 46 24 | 1 | 7.9 | $F_2$ | 1-1-1 | | fine |
| | 0 54W | 29 09 | 1 | 7.83 | $G_0$ | 1-1-1 | Sky clouding over. | fine |
| | | | | | | 4/3 | | fair |
| | | | | | | | 2 P.M. Loaded plates ready! | |
| | | | | | | | Sept 21 HC −21.8 s (~~+10.2~~) SC +53.8 s HTW +10.2 STW +0.2 m ~~Corr~~ SW +20.9 s | |
| | Sat Sept 22-23 Hd-L | | | | | | 10 Visitors showed B Cyg with 7", H with 5" through breaks. Then thick again. | |

**Date** Sunday Sept 23-24, 1951 **Observer** Ra - Ha **Julian Day** 3913

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H |
|---|---|---|---|---|---|---|---|---|---|---|
| 18477 | β Oph | 17 33.5 | 4 37 | [illegible] | [illegible] | [illegible] | 17.0 | 1845 | 1846 | 3 |
| | | | | | | | | 1847.5 | 1850 | |
| | | | | | | | | 1851 | 1855 | |
| 18478 | θ Her | 17 52.8 | 37 16 | " | " | " | 17.0 | 19[illegible] | 1907 | 4 |
| | | | | | | | | 1909.5 | 1914.5 | |
| | | | | | | | | 1915 | 1923 | |
| 18479 | HD166620 | 18 06.4 | 36 38 | " | " | " | 17.0 | 1932 | 2018 | 1 |
| | " " | | | | | | | 2018 | 2049 | |
| 18480 | 11 Her | 18 91.9 | 20 27 | " | " | " | 17.0 | 2055.5 | 2057 | |
| | | | | | | | | 2059 | 2102 | |
| | | | | | | | | 2103 | 2106 | |
| 18481 | θ Lyr | 19 13.9 | 37 57 | " | " | " | 17.0 | 2118 | 2121 | |
| | | | | | | | | 2122.5 | 2125 | |
| | | | | | | | | 2204.5 | 2245 | |
| 18482 | HD201094 | 21 03.4 | 26 08 | " | " | " | 17.0 | 2145 | 2245 | 3 |
| 18483 | AG 13039 | 21 53.0 | 26 27 | " | " | " | 17.0 | 2248 | 00 20 | 1 |

Dome Temp. 63

Focus 12.922

Dome Temp.

Transparency Conditions Good — to begin with 294

Standard Kunowski + prism overexposed since forgot to subtract mag factor. Hope I overestimated seeing

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | 4 36 | 0 | 3.9 | K2 III | 4 | Set 2 | Std hem. Numbered 18777 | good |
| | | " | | | | 4 | 5 | " | |
| | | " | | | | 4 | 7 | " | |
| | | 3716 | 0 | 5.0 | K1 III | 4 | 2 | " Numbered 18778 | good |
| | | " | | | | 4 | 5 | " | |
| | | | | | | 4 | 7 | " Numbered 18779 | |
| | | 72 23 | 0-1 | 7.4 | K1 V | 1-1-1 | 5 | " Clouds normal | Poor |
| | | " | 1-2 | | | 1-1-1 | 7 | " Set streamed. | |
| | | 3030 | 2 | 4.7 | F5 V | 4 | 2 | " Numbered 18780 | Poor |
| | | " | | | | 4 | 5 | " | |
| | | " | | | | 4 | 7 | " | |
| | | 38 02 | 2 | 5.5 | K0 III | 4 | 2 | " Numbered 18781. | good |
| | | " | | | | 4 | 5 | " | |
| | | " | | | | 4 | 7 | " no comparison on this exposure | |
| | W0132 | 26 22 | 0-1 | 5.8 | K2 | 1-1-1 | 5 | Aborted [illegible] | AA - poor |
| | W 02 17 | 28 44 | 0 | 5.8 | G5 | 1-1-1 | 5 | " Hazy clouds | poor |

(cont'd)

Date Sunday Sept 23/24 Observer —H.a Julian Day 3913

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.B. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18484 | 22 And | 00 05.1 | 45 31 | I-12" | E1034-0 | .008 | 17.0 | 00 26 | 00 28 | 2 |
| | | | | | | | | 00 29 | 00 33 | |
| | | | | | | | | 00 33 | 00 39 | |
| 18485 | δ And | 00 34.0 | 30 19 | " | " | " | 17.0 | 00 46 | 00 46 40 | 3 |
| | | | | | | | | 00 48 | 00 49 30 | |
| | | | | | | | | 00 51 | 00 54 | |
| 18486 | ζ Cas | 00 43.0 | 57 17 | " | " | " | 17.0 | 01 08 | 01 08 30 | 4 |
| | | | | | | | | 01 12 | 01 13 30 | |
| | | | | | | | | 01 14 | 01 17 | |
| 18487 | H.O. 9138 | 01 24.9 | 05 38 | " | " | " | 17.0 | 01 32 | 01 44 | 1 |
| 18488 | μ Cet | 02 39.5 | 09 42 | " | " | " | 17.0 | 01 53 | 01 54 | 2 |
| | | | | | | | | 01 56 | 01 58 | |
| | | | | | | | | 01 59 | 02 05 | |
| 12428 F | Focus test | | | | | | | | | 3 |
| | | | | | | | | | O.T.B. | |
| | | | | | | | | | | |

Dome Temp.....

Focus.....

Dome Temp. 54

Transparency Conditions very hazy

cloud 02 30, Jupiter barely visible in haze

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | 45 48 | 0 | 5.4 | F2 II | 1½-1½ | St. Lum | fine |
| | " | | | | 1½-1½ | | |
| 0 23 | " | | | | 1½-1½ | | |
| | 30 37 | 0 | 4.6 | K3 III | 3 | " " | fine |
| | " | | | | 3 | | |
| 00 09 | " | | | | 3 | | |
| | 57 32 | 0 | 4.2 | G0 IV | 3 | " " | |
| | " | | | | 3 | | |
| 00 23 | " | | | | 3 | | |
| 00 07 | 05 54 | 0 | 6.19 | K4 | 1-1-1 | St. Velocity | |
| | 09 56 | 0 | 4.7 | F0 III | 3 | St. Luminosity | |
| | | | | | 3 | | |
| 02 45 | | | | | 3 | | |
| | | | | | 4/3 | | |

Moon Sept 24-25 Hd. Clearing highly at 1930 Then Thick. Stars Thick at 2100.

1 P.H. loaded with plates

| | HC | SC | MTW | STW | SA |
|---|---|---|---|---|---|
| Sept 24 | -24.2$^s$ | +57.6$^s$ | +27.5$^s$ | +.5$^m$ | -.5$^s$ |

247 Tues Sept 25-26. No observing because dome floor painted today.
Clear with bright aurora. Wed Sept 26-27 clear 1900-2000 then thick again. Hd.

Sept 26 MC -29.2$^s$ SC +62.0$^s$ MTW -9.2$^s$ STW -0.1$^m$ SBW -22$^s$

**Date** Sept. 28-29/5/ **Observer** L-Hr-Ba **Julian Day** 3918

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.A. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18489 | HD 198550 | 20 46.0 | 29 01 | I 12.5 | F 103aO | .008 | 10.9 | 20.55 | 21.11 | 4 |
| 18490 | " " 203471 | 21 17.3 | 28 09 | " | " | " | 10.5 | 21.44 | 22.30 | 1 |
| 18491 | " " 208691 | 21 52.6 | 27 32 | " | " | " | 10.3 | 22.37 | 23.23 | 2 |
| 18492 | AF 13518 | 22 22.7 | 25 04 | " | " | " | 10.3 | 23.07 | 00.23 | 3 |
| 18493 | HD 11120 | 01 44.3 | 35 15 | | | | | 0028 | 0128 | 4 |
| 18494 | BD + 46° 203 ~~HD 5134~~ | 50.4 ← | 46 36 | " | " | " | 10.3 | 0117 | 0233 | |
| 18495 | 5378 | 60 50.5 | 46 07 | " | " | " | 10.3 | 0236 | 0315 | |
| 18496 | 5344 | 50.2 | 46 21 | " | " | " | 10.3 | 0307 | | |
| | OTB | Oct 2 | | | | | | | | |
| | | Spectrum for Oct 2 | | | | | | | | |

Dome Temp. 45°F

Focus 12932

Dome Temp.

Transparency Conditions Rain squalls and wind delayed opening.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | D 54 W | 29 12.5 | 0 | 8.82 | K0 | 1-1-1 | | |
| | 17 W | 28 21.5 | 0 | 8.89 | K2 | 1-1-1 | | |
| | 1 W | 27 46.5 | 0 | 8.87 | G5 | 1-1-1 | | |
| | 2 54 W | 25 19 | 0 | 8.77 | K0 | 1-1-1 | Scattered cloud | |
| | D 153 W | 25 30 | 0 | 8.93 | G5 | 1-1-1 | | |
| | 0151 W | 24 52 | 0 | 10.6 AGK2 ~~8.0~~ | G6 ~~+0~~ | 1-1-1 | Field very not bright like charts. What is [illegible] ? → 1935 D 448. Rapid following [illegible] | |
| | 0223 W | 46 25 | 0 | 7.1 | F2 | 1-1-1 | " | |
| | | | 0 | 7.0 | A0 | 1 | " Consistently bad. [illegible] | |
| | | | | | | | Star shining [illegible] ? → Too many ajustments | |
| | | | | | | | Clouded over beginning row 046 | |
| | | | | | | | 3 PH. + 2 in bad | |
| | | | | | | | Need plates | |
| | | | | | | | Sept 28 HC −21.0s SC +45.0s 4TW +15.0s STW +.3m SW −50s | |

**Date** Sat., Sept 29-30, 1951 **Observer** Wm - Ha **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18 497 | 75 Cygni | 21 36.3 | +42 29 | 1-12½ | E1030-O | SET 003 | | 21 25 | 21 31 | |
| | | | | | | | | 21 33 | 21 45 | |
| | | | | | | | +11°0C | 21 46 | 22 10 | " |
| 18 498 | AG 13070 | 21 54.7 | +28 10 | " | " | " | 11.0 | 22 16 | 00 08 | 1 |
| 18 499 | HD 3531 | 00 33.2 | +46 25 | " | " | " | 11.0 | 00 18 | 00 40 | 2 |
| 18 500 | β And | 01 04.1 | +35 05 | " | " | " | 11.0 | 00 47 | 00 [illegible] | 3 |
| | | | | | | | | 00 49 | 00 [illegible] | |
| | | | | | | | | 00 52 | 00 [illegible] | |
| [illegible] | [illegible] | [illegible] | | | | | | | | |

Dome Temp. +45°F

Focus +15.0 ?.8

Dome Temp.

Wm showed 2 ICO visitors Trig, Upsilon & a Aldebaran

Transparency Conditions Some cloud on horiz 250

| Reading Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | 0' | 6.6 | M I III | 4- | Set 2 | |
| | | | | | | 4 | " 5 } Yerkes Std Lum | |
| | W 47 | +43°05' | | | | 1-1-1 | " 9 | |
| | 2 26 | +28 24 | 0 | 8.89 | G0 | 1-1-1 | AG 25 Considerable thin cloud from about 2300 on | f. |
| | 0 20 | +46 40 | .0 | 7.62 | G5 | 1-1-1 | R.A. | |
| | | +35 24 | 0 | 3.7 | M0 III | 3 | 20 sec Std Lumen. | |
| | | | | | | 3 | 40 " | |
| | 0 02 | | | | | 3 | 20 " | |
| | | Cirrus all = ced. | | | | 4/3 | from ~~Ext~~ Slit long dichroic prism 02 10. large orbid | |
| | | | | | | | 4 PH loaded | |
| | | | | | | | 2 plate in box is blue. | |
| | | | | | | | Dec. HC SE HTH STE SW | |
| | | | | | | | - 2.2° +8.9° -12' 0 8 - 6 | |
| | | | | | | | 23.5° +31.5 +6.5 - 7 | |

Date Thurs Oct 4-5, 1951 Observer Hd-L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| | MW 312 | | | | | | | | | |
| 18501 | HD 180398 | 19 11.3 | 12 56 | I-12 | E103aO | 008 | +23.3 | 18 51 | 19 21 | 4 |
| 18502 | γ Aql | 19 21.4 | 00 08 | " | " | " | +23.1 | 19 28 | 19 29½ | 1 |
| | | | | | | | | 19 31 | 19 34 | |
| | | | | | | | | 19 35 | 19 41 | |
| 18503 | 6 Dra | 19 32.6 | 69 29 | " | " | " | 23.0 | 19 50[35] | 19 52[35] | 2 |
| | | | | | | | | 19 54 | 19 58 | |
| | | | | | | | | 19 59[40] | 20 07[40] | |
| 18504 | 35 Cyg | 20 14.8 | 34 40 | " | " | " | 23.0 | 20 15 | 20 17 | 3 |
| | | | | | | | | 20 17[50] | 20 21[50] | |
| | | | | | | | | 20 23 | 20 31 | |
| 18505 | H.D. 202521 | 21 11.3 | 27 35 | " | " | " | 23.0 | 20 36 | 21 10 | 4 |
| 18506 | " 207470 | 21 44.1 | 28 15 | " | " | " | 22.9 | 21 13 | 22 07 | 1 |
| 18507 | " 209680 | 22 00.1 | 29 28 | " | " | " | 22.9 | 22 18 | 23 42 | 2 |
| 18508 | " 483 | 00 04.2 | 16 59 | " | " | " | 22.8 | 23 46 | 00 04 | 3 |
| 18509 | " 3565 | 00 33.5 | 44 07 | " | " | " | 22.8 | 00 10 | 00 30 | 4 |
| 18510 | " 7458 | 01 09.6 | 61 22 | " | " | " | 22.8 | 00 40 | 00 58 | 1 |

Dome Temp. 70 F

Focus 12.932

Dome Temp.

Transparency Conditions poor



9 astron 4 students Showed 74 with 5."

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| 21 | W0 41 | 13 02 | 0 | 7.7 | K(3)Ne | 1-1-1 | Be Bin. | |
| 19½ | | | | 5.3 | F2Ib | 4 | Std lum. | |
| 19 34 | | | | | | 4 | 5 | |
| 41 | W0 50 | +0 15' | | | | 4 | 9 | |
| 52 | | 69 34 | 0 | 5.8 | K0V | 4 | Std | |
| 58 | | | | | | 4 | " 5 | |
| 01 | W1 09 | | | | | 4 | " 9 | |
| 17 | | 34 49 | 0 | 5.6 | F5Ib | 4 | Std | |
| 21 | | | | | | 4 | " 5 | |
| 31 | 0 48W | | | | | 4 | 9 | |
| 10 | 0 30W | 27 48 | 0 | 8.54 | K2 | 1-1-1 | AG. 25 | |
| 07 | 0 55W | 28 30 | 0 | 8.79 | K0 | 1-1-1 | " | |
| 42 | W2 14 | 29 45 | 0-1 | 9.8 | K5 | 1-1-1 | " | |
| 04 | W0 32 | 17 16 | 1 | 7.73 | G0 | 1-1-1 | KA | |
| 30 | W0 29 | 44 26 | 1 | 7.9 | A0 | 1-1-1 | KA. | |
| 58 | | 61 45 | 1 | 7.78 | F5 | 1-1-1 | " | |

Date Oct 8 Observer L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18511 | MWC 23 | 01 55.6 | 59 12 | I-12 | E103a.o | 22E | 22.8 | 01 09 | 01 | |
| 18512 | HD 15853 | 02 27.9 | 46 16 | " | " | " | 23.9 | 01 47 | 01 57 | |
| 18513 | " 16365 | 02 32.4 | 45 46 | " | " | " | 23.4 | 02 05 | 02 23 | |
| 18514 | HD [illegible] | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | |
| 18515 | " 20656 | [illegible] | 13 01 | " | " | " | 22.7 | 03 24 | 03 41 | |
| 18516 | " 26579 | 04 01.1 | 74 22 | " | " | " | 23.6 | 03 56 | 04 16 | |
| 18517 | " [illegible] | 04 10.6 | 45 18 | " | " | " | 23.0 | 04 30 | [illegible] | |
| 18518 | { [illegible] | 04 17.8 | 16 03 | " | " | " | 24.0 | 04 52 | 05 | |
| | { Focus Test | | | | O 713 | | | | | |

Dome Temp.....

Transparency Conditions .....

Focus.....

Dome Temp. +62 F

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 5W | 5 9 27 | 1 | 8.0 | $B_3$ | 1-1-1 | Bc Binary | fine |
| | 1W | 4 6 49 | 1 | 8.0 | $A_0$ | 1-1-1 | K.A. | fine |
| | | 4 5 59 | 1 | 7.3 | $A_0$ | 1-1-1 | " | fine |
| | | 5 9 53 | 1 | 7.9 | $A_0$ | 1-1-1 | " | 2 stars |
| | | 13 12 | 0 | 7.73 | $F_8$ | 1-1-1 | " | bad |
| | 2W | 7 4 39 | 1 | 8.0 | $A_0$ | 1-1-1 | " | fine |
| | | 4 5 25 | 1 | 7.72 | $A_0$ | 1-1-1 | " | fine |
| | | 8 4 | 0 | 7.3 | $A_0$ | 1-1-1 | " | fine |
| | | | | | | 4-3 | 2 P.Ns added + 4 | |

1 on Nm.

| | Mc | Sc | MW | STW | SW |
|---|---|---|---|---|---|
| Dec 5 | $-20.5^s$ | $+67.2^s$ | $-25.5^s$ | $-.6^m$ | $-38.1^s$ |

**Date** Fri Oct 5/6, 1951 **Observer** W.m. **Julian Day** 2 43 3925

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18519 | α Sgc | 19 35.6 | +17 47 | I 12½ | 103a-C | OCE | | 18 59 | 19 00 | |
| | " | | | | | | | 01 | 03 | |
| | " | | | | | | +1:4:8 | 05 | 09 | |
| 18520 | NWC 312 HD 180 398 | 19 11.3 | +12 56 | " | " | " | +21.7 | 19 23 | 20 11 | |
| | Focus Test | | | | | | | O.T.B. | | |

Dome Temp. +68°F

Focus 12.973

Dome Temp.

Transparency Conditions Some haze

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 4 | Set 2 Std Lum | |
| | | | | | | 4 | " 5 | |
| | 0W05 | +17 56 | 0! | 5.0 | G0II | 4 | " 9 | |
| | 1W35 | +13 02 | 0 | 7.7 | B3ne | 1-1-1 | BeBi very hazy | |
| | | | | | | 4/3 | Wind rising – lightning – thickening haze | |
| | | | | | | | 4PH loaded + 12 in unopened box | |
| | | | | | | | 4 – [illegible] | |
| | Sat | Oct 6-7/51 | | | | | Cloudy. No visitors – Hd | |
| | Mon | Oct 8-9 | | | | | a few breaks, mostly cloudy. Thick cirrus at 23 or. – Hd | |
| | | Orig | MC −20s | | + | SC 78s | SW −5s MTW backed. | |

**Date** [illegible] **Observer** Pe - Ha **Julian Day** 3929

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1852 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | ≥19.6 | 1940 | 1941 | 2 |
| | " | " | " | " | " | " | ≥↑ | 1942 | 1944 | |
| | | | | | | | | 1946 | 1950 | |
| 1852 3 | HL 21-106 | 22 45.0 | 43 19 | " | " | " | 19.5 | 2302 | 2306 | 5 |
| 1853 | 21 7051 | 22 53.2 | 45 28 | " | " | " | 19.5 | 2309 | 00 11 | 4 |
| 1854 | HD 7279 | 01 21.4 | -00 55 | " | " | " | | 00 22 | 00 27 | 1 |
| | " | " | " | " | " | " | 09.4 | 00 32 | 00 52 | 1 |
| 1855 | HD 10673 | 01 39.1 | +43 13 | " | " | " | 09.4 | 01 02 | 02 02 | 2 |
| 1856 | HD 15853 | 02 27.9 | +46 16 | " | " | " | 09.4 | 02 01 | 02 39 | 3 |
| 1857 | ζ Per | 02 43.4 | +55 29 | " | " | " | | 02 52 | 03 03 | 1 |
| | | | | | | | | 02 57 | 03 02 | |
| | | | | | | | | 02 57 | 03 02 | |
| | | | | | | | 09.3 | 03 03 | 03 07 | |
| 1858 | HD 23717 | 03 34.1 | +44 36 | " | " | " | 09.3 | 03 15 | 03 45 | 1 |
| 1859 | HD 30221 | 04 40.6 | 45 18 | " | " | " | 09.3 | 03 54 | 04 18 | 2 |
| 1860 | HD 46160 | 06 26.7 | 27 54 | " | " | " | 09.3 | 04 26 | 05 16 | 3 |

Dome Temp. 46

Focus 12.73

Dome Temp. 37

Transparency Conditions

258

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | 1 | 5.1 | G5 II | — | 2 | |
| | | | | | | 3 | 5 | |
| | 1 59 W | | | | | 3 | 7 | |
| | 1 42 W | 42 24 | 1 | 8.0 | A0 | 1-1-1 | KA 42 | Fair |
| | 02 10 W | 46 47 | 0-1 | 8.0 | A2 | 1-1-1 | " | Fair |
| | | | 0 | 7.5 | K0 | 1- | | |
| | 23 W | -00 38 | 0 | " | " | 1-1-1 | | |
| | 1 14 W | +43 30 | 0-1 | 8.0 | F0 | 1-1-1 | KA 21 | |
| | 1 03 W | +46 30 | 0 | 8.0 | A0 | 1-1-1 | KA 22 | Fair |
| | | | 0-1 | 4.7 | K3 Ib | 3 | | Fair |
| | | | " | | | 3 | | |
| | 1 11 W | 55 42 | " | | | 3 | | |
| | 1 15 W | " | " | | | 3 | | |
| | 1 02 W | 44 47 | 0-1 | 8.0 | A0 | 1-1-1 | KA 23 | Fair |
| | 10 27 W | 45 24 | 0 | 7.7 | A0 | 1-1-1 | KA 24 | Thin |
| | 10 12 E | 27 54 | 1 | 8.7 | K5 | 1-1-1 | HG 25 spots spoiled | |

259

Date Tue Oct 9/10 1894 (corr) Observer -Hz Julian Day 3929

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18531 | HO 35410 | 05 19.4 | -00 59 | 7" | E 103a O | .003 | | 05 34 | 05 38 | 4 |
| | Precise Int | | | | | | | 07.8 | | |

Dome Temp.....

Focus.....

Dome Temp.....37.....

Transparency Conditions .....perfect.....



| Ending Time P.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 01 m | -00 56 | 0 | 5.93 | K0 | 1½-1½ | old velocity | Fair |
| | | | | | | 4/3 | 1 P.H loaded | |
| | | | | | | | 4 plates in box. | |
| | | | | | | | Focus C slightly turned | |

Date [illegible] Observer [illegible] Julian Day [illegible]

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 18532 | M 44 Test. | 8 11.3 | 19 56 | 1.18" | E 103a-O | .008 | 12.3 | 18 50 | 19 3[illegible] | 1 |
| 18533 | HD 191 [illegible] | 19 43.5 | 20 17 | " | " | " | 12.3 | 19 39 | 20 49 | 2 |
| 18534 | HD 195334 | 20 36.6 | 20 43 | " | " | " | 12.3 | 21 [illegible] | 22 [illegible] | 1 |
| 18535 | HD 201094 | 21 02.4 | 24 [illegible] | " | " | " | [illegible] | 22 10 | 23 26 | 1 |
| [illegible] | HD 3565 | [illegible] | 49 [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | Sid. Tim. | [illegible] | [illegible] |
| 18536 | HD 20654 | 3 17.4 | 13 01 | " | " | " | 12.1 | 3[illegible] | 3 [illegible] | 1 |
| [illegible] | " ~~23 [illegible]~~ | ~~2 [illegible]~~ | ~~14 [illegible]~~ | [illegible] | [illegible] | [illegible] | 12.1 | [illegible] | [illegible] | [illegible] |
| [illegible] | " 28536 | 4 22.2 | 15 49 | " | " | " | 11.9 | [illegible] | [illegible] | 2 |
| 18539 | " 34811 | 5 16.0 | 15 32 | " | " | " | 12.8 | [illegible] | [illegible] | 1 |
| [illegible] | " 37352 | 5 [illegible] | 30 [illegible] | " | " | " | 12.1 | [illegible] | [illegible] | 1 |
| [illegible] | " HD 3755 | 6 [illegible] | 14 [illegible] | " | " | " | 12.0 | [illegible] | [illegible] | 1 |
| | Focus Test | | | | O.T.B. | | | | | |

Dome Temp. 52

Focus 12.931

Dome Temp. 42.5 F

Transparency Conditions Scattered clouds



| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 0117W | 13 01 | 0 | 7.7 | B[illegible] | 1-1-1 | Be Trap. Scattd clouds during exposure | [illegible] |
| 0155W | 20 25 | 0 | 8.82 | G-0 | 1-1-1 | AG | [illegible] |
| 0234W | 20 52 | 0-1 | 8.82 | K2 | 1-1-1 | " Dec clouds [illegible] | [illegible] |
| 0312W | 21 22 | 0- | 8.86 | K2 | 1-1-1 | " MWC 312 [illegible] | [illegible] |
| | | | 7.9 | A0 | | KA20 Heavy cloud, clearing late. | |
| [illegible] | 13 11 | 0-1 | 7.73 | F8 | 1-1-1 | KA | fair |
| [illegible] | 45 37 | 0-1 | 8.0 | A0 | 1-1-1 | KA wrong star | weak |
| [illegible] | 15 50 | 0-1 | 9.0 | M0 | 1-1-1 | KA | strong |
| [illegible] | 15 35.5 | 0 | 7.6 | A5 | 1-1-1 | KA | fair |
| [illegible] | [illegible] | 0 | 7.76 | A | 1-1-1 | KA | fair |
| [illegible] | 14 31 | 0 | 7.6 | A | 1-1-1 | KA Haze [illegible] | fair |
| | | | | | 4/3 | 3 PM [illegible] | fair to P.C. |
| | | | | | | 7 min [illegible] | |
| | | | | | Oct 12 | HC SC SW<br>-18s +130s +23.6s | |

Date Fri Oct 12-13, 1951 Observer Hd - Ha Julian Day 3286

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.H. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18542 | K Cyg | 19 14.8 | 53 11 | I-12 | E103a0 | 008 | 12.3 | 18 55 | 18 56 | 3 |
| | | | | | | | | [illegible] | 19 00 | |
| | | | | | | | | [illegible] 01 | 19 05 | |
| 18543 | MW 312 HD 180398 | 19 11.3 | 12 56 | " | " | " | 12.0 | 19 13 | 19 47 | 4 |
| 18544 | 16 Cyg (Pr) | 19 39.2 | 50 18 | " | " | " | | 20 01 | 20 13 | 1 |
| 18545 | " (Fd) | " | " | " | " | " | 12.0 | 20 16 | 20 28 | 2 |
| 18546 | MW 12 HD 180398 | 19 11.3 | 12 56 | " | " | " | 12.0 | 20 38 | 21 20 | 3 |
| 18547 | HD 209745 | 22 00.6 | 29 24 | " | " | " | 12.0 | 21 23 | 22 23 | 4 |
| 18548 | HD 209680 | 22 00.1 | 29 28 | " | " | " | 12.0 | 22 26 | 23 56 | 1 |
| 12549 | HD 5091 | 00 47.7 | 46 03 | " | " | " | 12.0 | 00 02 | 00 28 | 2 |
| [illegible] | BD +61 [illegible] 284 HD 3005 | 01 25.4 01 34.6 | 61 47 62 57 | " | " | " | 12.0 | 00 39 | 00 55 | 3 |
| 18551 | MWC 23 H.D. 12302 | 01 55.6 | 59 12 | " | " | " | 12.0 | 01 25 | 01 57 | 4 |
| 18552 | 1 Cet | 02 39.5 | +9 42 | " | " | " | | 02 02 | 02 03 | 1 |
| | | | | | | | | 02 05 | 02 07 | |
| | | | | | | | 12.0 | 02 07 | 02 16 | |
| | | | | | | | | | | |

Dome Temp. 48F

Transparency Conditions Good

Focus 12.932

Dome Temp.

25 Visitors from Longstaff school N showed 6 with 5"

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | 53 18 | 0 | 5.0 | K0 III | 4 " 1 | Std hum Couldn't find HW 312. Watch cover wrong? | fine (indistinct) |
| | | 0 | | | 4 " 5 | | |
| W0 51 | + | 0 | | | 4 " 9 | | |
| W1 35 | 13 04 | | 7.7 | B3ne | 1-1-1 | Be Binary | good |
| W1 35 | | 0 | 6.9 | G2 V | 1-2 | Std Hum Bad Water seen ÷ -30s | Lottery |
| W1 50 | 50 25 | 0 | 6.9 | G5 V | 1-1-1 | Std hum | Lottery |
| W3 10 | 13 03 | 0 | 7.7 | B3ne | 1-1-1 | Be Binary | fine |
| W1 23 | 29 40 | 0 | 8.33 | G5 | 1-1-1 | AG proj. + ad no faint for 8.33 | fine |
| 2 58 | 29 45 | 0 | 8.35 | K5 | 1-1-1 | " " Cover 2 from Time 2m to end 5 | fine |
| 0 43 | 48 20 | 0 | 7.3 | A0 | 1-1-1 | K A. 20 | strong wrong * too weak |
| 0 32 | 52 06 | 2 | 7.32 | eB5e | 1-1-1 | Be binary | |
| 1 03 | 57 20 | 0 | 7.3 | B3e | 1-1-1 | Be binary | fine |
| | | | 4.7 | F0 IV | 3 | Std Hum 4 sec " 2 | fine |
| | | | " | " | 3 | 70 sec " 5 | |
| 0 33 | +7 55 | 0 | " | | 3 | " 4 | |

(cont'd)

Date Fri Oct 12-13 1951 Observer - Hq Julian Day 3932

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E |
|---|---|---|---|---|---|---|---|---|---|---|
| 18553 | ε Eri | 03 28.2 | −9 48 | 1-12½' | E 103-0 | 1-9 | 12.0 | 02 18 | 02 19 | 2 |
| | | | | | | | | 02 21 | 02 23 | |
| | | | | | | | | 02 24 | 02 27 | |
| 18554 | H.O 46277 | 06 27.4 | +12 8 03 | " | " | " | 12.0 | 02 39 | 03 15 | 3 |
| 18555 | H.O 46944 | 06 31.0 | +28 03 | " | " | " | 12.0 | 03 23 | 04 37 | 4 |
| 18556 | H.Q 44131 | 06 15.0 | −02 54 | " | " | " | 12.0 | 04 42 | 04 50 | 1 |
| 18557 | 4' Aur | 06 17.2 | +49 20 | " | " | " | 12.0 | 04 55 | 05 01 | 2 |
| 18558 | 6 Gem | 06 06 3 | 22 56 | " | " | " | 12.0 | 05 06 | 05 26 | 3 |
| 18559 | HQ 02285 | 07 38.1 | 26 01 | " | " | " | 12.0 | 05 30 | 05 42 | |
| | Focus Test | | | | O.T.B. | | | | | |

Dome Temp.....

Focus.....

Dome Temp.....42°F

Transparency Conditions.....perfect.....



| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | -7 37 | 0 | 4.3 | K2 IV | 3 | ~2 Std Lumin 40 secs | fine |
| | | | | | | 3 | 5 90 secs | |
| | 00 02 | | | | | 3 | 7 3 min. | |
| | 02 10 | 28 02 | 1-2 | 5.35 | K2 | 1-1-1 | AG 25 | fine |
| | 00 51 | 27 02 | 0 | 3.90 | G5 | 1-1-1 | AG 25 | fine |
| | 00 21 | -02 55 | 0 | 6.53 | M1 | 1-1-1 | Std Velocity | good |
| | 00 15 | 49 18 | 0 | 4.3 | M0 Ib | 1-1-1 | Std Lum | Lunar |
| | 00 23 | 22 57 | 0 | 7.5 | M1 Ia | 1-1-1 | Std Lum. | good |
| | 00 53 | 25 56 | 0 | 6.36 | M5 | 1-1-1 | AG 25 | fine |
| | | | | | | 4/3 | | |
| | | | | | | | 1 P.H loaded | |
| | | | | | | | No plates in alone | |

**Date** Sat Oct 11 61 **Observer** P. L - L **Julian Day** 3933

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 18560 | IWC 312 | 12 11.3 | 13 5. | C-12" | E103aO | .008 | 12.4 | 1829 | 19 2009 | |
| 18561 | A 5 17834 | 21 31.6 | 26 0 | " | " | " | 12.1 | 2246 | 0010 | L |
| | | | | | | | | | | |
| 18562 | HD 3531 | 00 33.2 | 41 25 | " | " | " | 12.1 | 0130 | 0144 | 2 |
| 18563 | " 98 00 | 21 31.2 | 46 37 | " | " | " | 12.2 | 0156 | 0216 | 2 |
| 18564 | " 1111 | 02 12.2 | 18 00 | " | " | " | 12.2 | 0245 | 0305 | 2 |
| 18565 | " 1951 | 03 02.6 | 12 29 | " | " | " | 12.2 | 0313 | 0326 | 2 |
| 18566 | " 0104 | 03 18.7 | 60 03 | " | " | " | 12.1 | 0354 | 0414 | 3 |
| 18567 | " 4634 | 06 17.7 | 27 37 | " | " | " | 12.1 | 0437 | 0519 | 1 |
| 18568 | " 46532 | 06 39.9 | 25 00 | " | " | " | 12.4 | 0532 | 0552 | 1 |
| 18569 | " 47720 | 07 35.0 | 24 47 | " | " | " | 12.2 | 0632 | 0652 | 1 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Dome Temp. 5°

Focus 12.33.1

Dome Temp.

Transparency Conditions Good.



| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| [illegible] W | 13 01 | 10 | 7.7 | B2 n2 | 1-1-1 | Reg. | fine |
| 03.5W | 6 18 | 2 | 6.91 | B5 | 1-1-1 | AG " | fine |
| | | | | | | | |
| [illegible] | 44 43 | 0 | 7.62 | G5 | 1-1-1 | KA 30 | fine |
| [illegible] | 46 43 | 0 | 7.7 | A0 | 1-1-1 | run off end of tube | fine |
| 03.9W | 13 14 | 0 | 7.68 | F0 | 1-1-1 | KA 70 | fine |
| [illegible] | 13 41.5 | 0 | 7.94 | G5 | 1-1-1 | KA 70 | fine |
| [illegible] | 30 13 | 0 | 7.72 | A2 | 1-1-1 | KA 90 | fine |
| 11° E | 2 70 | 0 | 8.58 | K0 | 1-1-1 | AG P3 | fine |
| 14 E | 0 45 8 | 0 | 8.61 | K3 | 1-1-1 | " " | fine |
| 17W | 39 46 | 0 | 7.71 | K3 | 1-1-1 | " " | fine |
| | | | | | | 3 PN + Add'l Plate made. | |

Watch correction
−2m throughout

Date Sun Oct 14-15/51 Observer Hd- Julian Day 3934

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. | Hour Angle End | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18570 | MW 312 HD 180398 | 19 11.3 | 12 56 | I-12 | E103a0 | 008 | 13.3 | 18 22 | 19 02 | 2 | 5m | |
| 18571 | f Sgl | 19 50.4 | +6 09 | " | " | " | | 19 08 | 19 09 | 3 | | |
| | | | | | | | | 19 10 | 19 12 | | | |
| | | | | | | | 13.3 | 19 13 | 19 16 | | 3m | |
| 18572. | HD 184719 | 19 30.7 | 28 56 | " | " | " | 13.0 | 19 23 | 20 03 | 4 | 14m | |
| 18573 | AG 10133 | 19 31.0 | 28 52 | " | " | " | 13.2 | 20 05 | 21 05 | 1 | 1.5 | |
| 18574 | MW 312 HD 180398 | 19 11.3 | 12 56 | " | " | " | 13.1 | 21 10 | 21 52 | 2 | 2 | |
| 18575 | ζ Cep | 22 01.4 | 57 42 | " | " | " | 13.1 | 22 01 | 22 01:30 | 3 | | |
| | | | | | | | | 22 03 | 22 04 | | | |
| | | | | | | | | 22 05 | 22 07 | | 1m | |
| 18576 | ε Cep | 22 11.4 | 56 33 | " | " | " | 13.0 | 22 14 | 22 16:30 | 4 | | |
| | | | | | | | | 22 16 | 22 17 | | | |
| | | | | | | | | 22 18 | 22 20 | | 1m | |
| 18577 | HR 8832 | 23 08.5 | 56 37 | " | " | " | 13.1 | 22 29 | 22 37 | 1 | | |
| | | | | | | | | 22 38 | 22 42 | | 4m | |

Dome Temp. +54 F

Focus 12.931

Dome Temp.

Transparency Conditions Good

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W 55m | 13 03 | 0 | 7.7 | K3 Vnw | 1-1-1 | Be Bin. | fair |
| | | | 1 | 4.9 | G8 V | 4 | Set 1 Std Lum. | fair |
| | | | 1 | | | 4 | 5 | |
| | W 34m | 6 20 | 1 | | | 4 | 9 | |
| | W 1h 41m | 29 03 | 1 | 8.51 | K2 | 1-1-1 | AG prog. | good |
| | W 2 43 | 29 00 | 1 | 8.79 | G5 | 1-1-1 | " " — faint | good |
| | W 3h 55 | 13 04 | 0 | 7.7 | K3 Vnw | 1-1-1 | Be Bin | fair |
| | | 57 59 | 1 | 4.6 | K1 III b | 4 | Set 1 Std Lum | fair |
| | | | 1 | | | 4 | 5 | |
| | W 1 09 | | 1 | | | 4 | 9 | |
| | | 56 50 | 1 | 4.5 | F0 V | 4 | 1 Std Lum | fair |
| | | | 1 | | | 4 | 5 | |
| | W 1 19 | | 1 | | | 4 | 9 | |
| | | 56 55 | 1 | 6.7 | K3 V | 4 | Set 5 Std Lum. | fair |
| | W 42m | | 0 | | | 4 | " 9 | |

Date Jan Oct 10-15/61 Could Observer HH - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|
| 18578 | HR 8752 | 22 55.9 | 56 25 | T·12 | E103aO | 008 | 13.1 | 22 47 | 22 55 | |
| | | | | | | | | 22 55 | 22 59 | |
| | | | | | | | | 22 59 | 23 01 | |
| 18579 | AG 13639 | 22 36.8 | 29 31 | " | " | " | 13.2 | 23 07 | 0 [illegible] | |
| | Groombridge | | | | | | | [illegible] | [illegible] | |
| | HD 9105 | 0127.6 | (35.1) | | | | | | | |

Dome Temp. 48°F

Transparency Conditions Good, then hazy

Focus

Dome Temp.

23 55$^{m}$ mean sidereal time = 01 08 Sid time.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | 56 41 | 0 | 5.0 | G0a | 4 | Set-1 Std beam | fair |
| | | | 0 | | | 4 | " 5 | |
| | 1 1$^{h}$ 14$^{m}$ | | 0 | | | 4 | " 7 | |
| | | 29 48 | | 9.7 | K5 | 1-1-1 | AG prog. left; pair in 74" field. Faint | |
| | | | | | | | nebulosity; haze, light cloud. | weak |
| | | | | 7.22 | (B5e) | | Sc 13. | |
| | | | | | | | 1 P.H. beam 1 + 4. | |
| | | | | | | | H = M | |
| | | | | | | | HC SC SW | |
| | | | | | | | Obs 15 -18$^{s}$ +72$^{s}$ +25$^{s}$ | |
| | | | | | | | assumed | |

Date Mon. Oct 15th, 1951 Observer [illegible] Julian Day 3935

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18580 | MW C 32 HD180398 | 19 11.3 | 12 56 | I·12. | E103.0 | 108 | 15.9 | 11 34 | 20 04 | 4 |
| 18581 | β Aql. | 21 26.2 | -6 01 | " | " | " | | 20 11 30 | 20 11 30 | 1 |
| | | | | | | | | 20 12 00 | 20 12 40 | |
| | | | | | | | 15.9 | 20 14 00 | 20 15 20 | |
| 18582 | γ Cep | 20 43.3 | 61 27 | " | " | " | | 20 28 | 20 28 30 | 2 |
| | | | | | | | | 20 29 | 20 30 | |
| | | | | | | | 16.0 | 20 31 | 20 33 | |
| 18583 | 61 Cyg B. | 21 02.4 | 38 15 | " | " | " | | 20 44 | 20 54 | 3 |
| | | | | | | | 15.8 | 20 59 | 21 06. | |
| 18584 | 61 Cyg A | 21 02.4 | 38 15 | " | " | " | | 21 08 | 21 10 | 4 |
| | | | | | | | 15.9 | 21 11 | 21 15 | |
| | | | | | | | | 21 15 | 21 15 | |
| 18585 | α Aql. | 22 00.6 46.6 | -0 48 | " | " | " | | 21 28 | 21 28 15 | 1 |
| | | | | | | | | 21 29 | 21 29 30 | |
| | | | | | | | 15.9 | 21 31 | 21 32 | |
| 18586 | AG 13639 | 22 36.8 | 29 31 | " | " | " | 15.9 | 21 41 | 23 01 | 2 |

Dome Temp. 58F

Focus 12.931

Dome Temp.

Transparency Conditions fair

Late starting 9/c

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 2 07 | 15 03 | 1 | 7.7 | B5 pec | 1-1-1 | See Bin. | fine |
| | | 1 | 37 | G0 Ib | 4 | set 1 Std Lum | fine |
| | | 1 | | | 4 | 5 | |
| W 03m | -5 45 | 1 | | | 4 | 9 | |
| | | 2 | 4.6 | K0 IV | 4 | 1 Std Lum | Strong |
| | | 2 | | | 4 | .5 | |
| W1 05 | 61 40 | 2 | | | 4 | .9 | |
| | | 2 | 7.5 | K: V | 1½-1½ | "5 Std Lum | |
| W1 18 | 38 30 | 2 | | | 1½-1½ | "9 | |
| | | 3 | 6.8 | K5 V | 4 | "1 Std Lum | fine |
| | 38 31 | 3 | | | 4 | "5 | |
| W1 35 | | 3 | | | 4 | "9 | |
| | | 2 | 3.8 | G2 Ib | 4 | "1 Std Lum note Numbers on Thos Plate Centre Epoch 1855.5 | fine |
| | | 2 | | | 4 | .5 | |
| W. 46m | -0 32 | 2 | | | 4 | .9 | |
| W 139 | 29 48 | 1-2 | 9? | K5 | 1-1-1 | 2 Ap prog. Left star in 74" spectra | |

Date ..... Observer ..... Julian Day .....

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18587 | [illegible] | [illegible] | 16 59 | [illegible] | [illegible] | [illegible] | 15.9 | [illegible] | [illegible] | [illegible] |
| 18588 | HD 3765 | 00 35.3 | 39 40 | " | " | " | 15.9 | [illegible] | [illegible] | [illegible] |
| 18589 | HD 7563 | 01 10.6 | 15 02 | " | " | " | 16.1 | 23 57 | 00 37 | 1 |
| 18590 | HD 7871 | 01 13.3 | 32 59 | " | " | " | 16.0 | [illegible] | 01 48 | 2 |
| 18591 | " 9714 | 01 30.0 | 27 46 | " | " | " | 16.0 | 01 50 | 02 00 | [illegible] |
| 18592 | " 7961 | 01 31.2 | 45 57 | " | " | " | 15.9 | 02 04 | 02 16 | 1 |
| 18593 | NWC 13 | 01 24.6 | 62 31 | " | " | " | 15.9 | 02 36 | 02 45 | 1 |
| 18594 | " 23 | 01 25.6 | 50 12 | " | " | " | 15.9 | 02 51 | 03 05 | 2 |
| 18595 | " 49 | 02 21.4 | 70 30 | " | " | " | 15.9 | 03 10 | 03 20 | 3 |
| 18596 | HD. 45336 | 06 21.7 | 69 19 | " | " | " | 15.9 | 03 30 | 04 00 | 4 |
| 18597 | " 47960 | 06 36.0 | 25 37 | " | " | " | 15.7 | [illegible] | 05 13 | 1 |
| 18598 | AG 3+11 | 06 36.0 | 29 30 | " | " | " | 16.0 | [illegible] | 06 15 | 2 |
| 18599 | HD 48911 | 06 37.1 | 37 38 | " | " | " | 16.0 | [illegible] | [illegible] | 3 |
| | [illegible] | | | | O.T.B. | | | | | |

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions.....

00 15 EST = 01 31 Sid Time

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| √ 0 34 | 17 16 | 2 | 7.7 | G0 | 1-1-1 | KA | |
| W 0 31 | 39 55 | 3 | 8.52 | K5 | 1-1-1 | Stellar | |
| W 11 | 15 58 | 3 | 7.70 | A2 | 1-2 | KA | |
| 0 32 W | 33 14 | 2 | 8.0 | A5 | 1-2 | KA. | |
| 0 27 W | 28 02 | 3 | 7.78 | G5 | 1-1-1 | KA | |
| 0 42 W | 46 14 | 3 | 8.0 | F5 | 1-1-1 | K3 ← trouble with RA. Slow motion | |
| 1 17 W | 63 06 | 3 | 7.22 | B5+B1 | 1-1-1 | Be Binary | |
| 1 05 W | 59 27 | 3 | 8.0 | B3e | 1-1-1 | " " | |
| 0 51 W | 70 44 | 3 | 7.8 | B5ne | 1-1-1 | " " | |
| 2 05 E | 29 18 | 0-1 | 8.54 | K5 | 1-1-1 | AG. 25 | |
| 1 [illegible] E | 35 20 5 | 0-1 | 8.65 | M2 | 1-1-1 | " " | |
| 1 [illegible] E | 71 27 | 0 | 8.86 | G0 | 1-1-1 | " " | |
| 0 [illegible] W | 27 25 | 0 | 8.64 | G0. | 1-1-1 | " " | |
| | | | | | 4/3 | 4 P.H. Loaded. | |
| | | | | | | 5 Plates in Plane A — M. | |

Date ... Observer ... Julian Day 3936

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18600 | HD 160 398 | 18 06.4 | 30 28 | [illegible] | [illegible] | [illegible] | 17.9 | [illegible] | 19 57 | 1 |
| 18601 | HD 160 398 NW 317 | 19 11.3 | 17 51 | " | " | " | 17.8 | 19 02 | 19 46 | 2 |
| 18602 | 31 Cyg | 20 10.5 | 41 25 | " | " | " | 17.6 | 19 53 | 19 [illegible] | |
| | | | | | | | | 19 55 | 19 [illegible] | |
| | | | | | | | | 19 58 | 20 02 | |
| 18602 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 17.8 | [illegible] | [illegible] | |
| 18603 | HD 160 398 NW 317 | 19 11.3 | 17 51 | " | " | " | 17.9 | 21 26 | [illegible] | |
| 18604 | HD 200 [illegible] | 21 [illegible] | [illegible] | " | " | " | 17.6 | 22 21 | [illegible] 46 | 1 |
| 18605 | HD 200 357 | 21 57.3 | 50 [illegible] | " | " | " | 17.2 | 23 50 | 00 30 | |
| 18606 | HD 98112 | 24 03.3 | +19 21 | " | " | " | 17.8 | [illegible] | 00 50 | |
| 18607 | HD 35707 | 03 57.1 | +13 02 | " | " | " | 17.8 | 00 59 | 01 [illegible] | |
| 18608 | 7 Ori | 04 [illegible] | +1 34 | " | " | " | 17.8 | 01 41 | 01 53 | 1 |
| | | | | | | | 17.5 | 01 53 | 02 01 | |
| 18609 | 8 Ori | 05 49.8 | +1 13 | " | " | " | 17.2 | 02 11 | 02 11 | |
| | | | | | | | | 02 16 | 02 16 | |
| | | | | | | | | 02 21 | 02 21 | |

Dome Temp. 62

Focus 12.921

Dome Temp.

Transparency Conditions Fair Some haze

Delays starting ... cool ... Cutting off AA setting

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 21 2W | 38 29 | <0 | 7.4 | K III | 1-1-1 | Surface haze | |
| | 153W | 13 31 | <0 | 7.7 | B0 | 1-1-1 | Be Prog | |
| | | | 0 | 4.95 | KC | 4 | Set 2 | |
| | | | | | | 5 | | |
| | 01 12W | | | | | 7 | | |
| | 0c 51W | -2 41 | 0 | | | 1-1-1 | | |
| | 042W | 13 01 | 0 | 7.7 | Bpe | 1-1-1 | Be Prog | |
| | 312W | 26 11 | 0 | 5.3 | B5 | 1-1-1 | | |
| | 03 55 | 7 17 | 0 | 6.07 | K0 | 1-1-1 | HgP | |
| | 21 55 | 11 29 | 0 | 6.45 | K1 | 1-1-1 | Star Velocity | |
| | 21 01 | +13 18 | 0 | 7.7 | A2 | 1-1-1 | K# 72 | |
| | 21 40 | +1 42 | 0 | 5.7 | K2 III | 1½-1½ | K+5 Star Comin | |
| | 21 32 | | | | | 1½-1½ | Be? | |
| | | | 0 | 1.5 | M2 Iab | 3 | Set 2 Star Comin | 5 |
| | | | | | | 3 | 5 | |
| | 03 11 | +7 26 | | | | 3 | 8 | |

Date ... Observer ... Julian Day ...

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1B 610 | 119 Tau | 05 24.4 | 27 31 | 40 | 103a-O | 2 | 17.9 | 02 21 | 02 31 | 3 |
| | | | | | | | | 02 32 | 02 35 | |
| | | | | | | | | 02 35 | 02 41 | |
| 1B 611 | HD 40393 | 05 54.6 | +21 28 | " | " | " | 17.9 | 02 56 | 03 55 | |
| 1B 612 | ζ Gem | 06 58.3 | 20 14 | " | " | " | | 03 [illegible] | 04 [illegible] | 1 |
| | | | | | | | | 04 [illegible] | 04 33 | |
| | | | | | | | 17.9 | 04 37 | 04 [illegible] | |
| 1B 613 | ξ Gem | 07 14.2 | 22 [illegible] | " | " | " | 17.9 | 04 [illegible] | 04 [illegible] | |
| | | | | | | | | 04 [illegible] | 04 [illegible] | |
| | | | | | | | | 04 [illegible] | 04 [illegible] | |
| 1B 614 | b Gem | 06 04.3 | 22 [illegible] | " | " | " | 17.9 | 04 27 | 04 [illegible] | |
| 1B 615 | BD +22 [illegible] | 06 59.0 | 21 02 | " | " | " | 17.9 | 04 49 | 05 17 | |
| 1B 616 | 4' Aur | 05 17.2 | 49 20 | " | " | " | 17.9 | 05 25 | 05 29 | |
| 1B 617 | 21 Lyn | 06 50.0 | +24 04 | " | " | " | 17.9 | 05 [illegible] | 05 [illegible] | |
| | | | | | | | | 05 47 | 05 51 | |
| | [illegible] | | | | | | | 06 [illegible] | | |

Dome Temp.....

Focus.....

Dome Temp. 52

Transparency Conditions .....

| | MC | SC | HTW | STW | SW |
|---|---|---|---|---|---|
| Oct 17 | $-18^s$ | $+43^s$ | $-10^s$ | $+0.1^m$ | $11^s$ |

{based on MC - notice signal gain}.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | +10 35 | 1-2 | 6.1 | M2 IV | 3 | Set 2 Sec Set Comp (no) | |
| | | | | | | 3 | Set 5 One OA setting needed | |
| | 01 26 | | | | | 3 | Set 8 work only about half | |
| | 11 32 | +03 25 | 1 | 5.3 | G0 | 1-1-1 | AG 25 Ha tone | |
| | | | 1-2 | 4.2 | G III | 3 | Set 2 Set Comp 30 sec | |
| | | | | | | 3 | 5 " 1 min | |
| | 01 11 | +20 13 | 2 | | | 3 | 8 " 30 sec | |
| | | | 2 | 3.7 | F2 IV | 3 | Set 2 Sec Comp 1 min | |
| | | | 2 | | | 3 | " 5 " 30 sec | |
| | 01 34 | +23 04 | 2-3 | | | 1 | " 2 " 1 min | |
| | 06 | 22 17 | 2 | 7.5 | K1 III | 1-1-1 | Set Comp. | |
| | 17 | 26 57 | 1 | 3.14 | K0 | 1-1-1 | AG 25 | |
| | 30 | 49 19 | 2 | 6.5 | M0 III | 1-1-1 | Set Comp. | |
| | | | | 5.1 | K3 IV | 3 | Set 2 Sec Comp. | |
| | 00 21 | -24 03 | 1 | | | 1 | 5 | |
| | (error in focus test) | | | | | 1/3 | Set 2 Sec Comp 30 sec | |

Date..... Observer..... Julian Day..... 3937

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 19618 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 19619 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 16° | 19 10 | [illegible] | [illegible] | [illegible] |
| | | | | | | | | 19 14 | 19 19 | | |
| | | | | | | | | 19 17 | 19 54 | | |
| 19620 | HD 180 348<br>NWC 312 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 19° | 19 [illegible] | [illegible] | [illegible] | [illegible] |
| 19621 | AG 11694 | 18 53.2 | 29 40 | [illegible] | [illegible] | [illegible] | 18° | [illegible] | 21 31 | [illegible] | [illegible] |
| 19622 | AG 11579 | 20 32.7 | 26 03 | [illegible] | [illegible] | [illegible] | 18° | [illegible] | 21 44 | [illegible] | [illegible] |
| 19623 | AG 13022 | 21 51.7 | 25 58 | [illegible] | [illegible] | [illegible] | 18° | [illegible] | [illegible] | [illegible] | [illegible] |
| 19624 | HD 211 47 | 01 30.0 30 | 27 46 | [illegible] | [illegible] | [illegible] | 16.8 | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] 10693 | 01 39.1 | 11 3 13 | [illegible] | [illegible] | [illegible] | 19° | [illegible] | 01 H° | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 18.5 | 01 50 | [illegible] | [illegible] | [illegible] |
| [illegible] | AG 3[illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 18° | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | H[illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 18.1 | [illegible] | [illegible] | [illegible] | [illegible] |
| | [illegible] | [illegible] | | | O. T. 13. | | | | | | |

Dome Temp. 69

Focus 12 931

Dome Temp.

Transparency Conditions Scattered clouds haze

282

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 2 W | 20 40 | 2 | 8.9 | G | 1-1-1 | Ab Pairs | |
| | | 0 | 4.15 | KO | 4 | Selected Pairs / Haze | |
| | | | | | 2 | E | |
| 30W | | 1 | | | 4 | ? | |
| 250W | 18 01 | 0 | 7.7 | [illegible] | 1-1-1 | Ab Pairs | |
| 301W | 21 48 | 0-1 | 8.85 | GO | 1-1-1 | Ab Pairs | fair |
| 336W | 26 3 | 0-1 | 8.77 | KO | 1-1-1 | " Selected Pairs | Fair |
| 338W | 26 15 | 1-2 | 8.72 | GO | 1-1-1 | " | fair |
| 357W | 29 33 | 0-1 | 7.78 | G5 | 1-1-1 | | fair to thin |
| 12W | 43 29 | 1 | 9.? | F0 | 1-1-1 | Ab Pairs [illegible] | clouds |
| 32W | " " | [illegible] | 9.? | " | 1-1-1 | Selected Pairs | v good |
| 35E | 21 34 | 0-1 | 8.04 | G0 | 1-1-1 | Ab Pairs | good |
| 10W | 21 25 | 0 | 8.67 | G0 | 1-1-1 | " " | fair |
| 30W | 21 37 | 0 | 8.75 | G0 | 1-1-1 | " " fogged at end | fair |
| | | | | | 4/3 | 3 Pairs 24 Pairs | |
| | | | | | | 27 | |

Date Thurs Oct 18-19, 1951 Observer (N) Hd- Julian Day 3938

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18630 | HD180398 | 19 11.3 | 12 56 | I·12 | E 3·0 | 008 | 18.3 | 18 24 | 19 04 | 2 |
| 18631 | 31 Cyg | 20 10.5 | 46 26 | " | " | " | | 19 10 | 19 11 | 3 |
| | | | | | | | | 19 12 | 19 14 | |
| | | | | | | | 18.6 | 19 15 | 19 20 | |
| 18632 | 16 Cyg (Pr) | 19 39.2 | 50 18 | " | " | " | 18.8 | 19 25 | 19 33 | 4 |
| 18633 | 16 Cyg (Tel) | " | " | " | " | " | | 19 34 | 19 43 | 1 |
| 18634 | ε Cyg | 21 01.3 | +43 32 | | | | | 19 48 | 19 49 | 2 |
| | | | | | | | | 19 50 | 19 52 | |
| | | | | | | | | 19 52 | 19 58 | |
| 18635 | HD203288 | 21 16.2 | +25 49 | " | " | " | +18.7 | 20 02 | 21 26 | 3 |
| | ~~208951~~ | ~~21 54.7~~ | ~~+30 53~~ | | | | | | | |
| 18636 | V Pg | 23 20.4 | 22 51 | " | " | " | 18.3 | 22 21 | 22 26 | 4 |
| | | | | | | | | 22 27 | 22 35 | |
| | | | | | | | | 22 35 | 22 37 | |

Dome Temp. 62 F
Focus 12.931
Dome Temp.

Transparency Conditions Hazy + some cirrus

10 Students of section 4. Showed H & S with 5" while N ran 74", + S Lee with 74".

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 1 18 | 13 04 | 0 | 7.7 | ~~K2~~ | 1-1-1 | Be Pair. MWC 312. | |
| | | | | 4.95 | K0 | 4 | Set 1 | |
| | | | | | | 4 | 5 | |
| | 1 31 | 46 26 | | | | | 9 | |
| | | 50 25 | 0 | 6.9 | $G_2\overline{V}$ | 2-2 | Std lum. Top left star in 74" field ⊙ | |
| | 1 31 | | 0 | 6.9 | $G_5\overline{V}$ | 2-2 | Std lum | |
| | | | 0 | 5.1 | $K5\frac{1}{2}b$ | 4 | Set 1 Std lum | |
| | | | | | | 4 | 5 | |
| | | +43 44 | | | | 4 | 9 | |
| | 1 37 | +26 03 | 0 | 8.65 | K5 | 1-1-1 | AG 25 | |
| | | | | ~~8.07~~ | ~~K2~~ | | | |
| | | 23 10 | | 5.2 | $F8\overline{III}$ | 4 | Set 1 | |
| | | | | | | 4 | 5 | |
| | 0 44 | | | | | 4 | 9 | |
| | | | | | | | 4 PH doubled + 16 is done. H on M. | |

Turning down

285
Oct. 19

MC −18.0$^s$ | SC +36.2$^s$ | HTW +7.5$^s$ | STW +.5$^m$ | SW −16$^s$

**Date** Fri Oct 19-20, 1951 **Observer** Hd- **Julian Day** 3939

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I. | Hour Angle End | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~18637~~ | MWC 312 HD 180398 | 19 11.3 | 12 56 | I-1/2 | E-103a-O | .008 | | 13 58. | | | | |
| 18637 | 31 Cygni | 20 10.5 | 46 26 | I-12 | E-103a-O | .008 | | 19 05 | 19 07 | 1 | | |
| | | | | | | | | 19 08 | 19 12 | | | |
| | | | | | | | 11.2 | 19 13 | 19 19 | | | |
| 18638 | MWC 312 HD 180398 | 19 11.3 | 12 56 | I-12 | E-103a-O | .008 | 11.2 | 19 23 | 20 57 | 2 | | |

Dome Temp. 47 F

Focus 12.931

Dome Temp. 40 F

Transparency Conditions Good between clouds.

Clouds at first

286

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | | 7.7 Bac | | | Clouds | |
| | | 0 | 4.95 | K0 | 4 | Set 1 | |
| | | 0 | | | 4 | " 5 | |
| (a) 4h 2m | 46 35 | 0 | | | 4 | " 9 | |
| 4 3 16 | 13 03 | 0 | 7.7 | B5 m2 | 1-1-1 | Bet Bac clouds, 1950-2030, Clouds again at 2050. Closed 2210 2PH loaded +16 Hon ?. | |

Date Sat Oct 20/21 Observer B.A.L. Julian Day 3940

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 13827 | 31 Cyg | 20 05 | 41 | | | | 7.8 | | | |
| | H [illegible] | [illegible] | | | | | | 21 45 | | |
| | | | | | | | | 22 | | |
| 13828 | H 20177 | 21 36.5 | 39 43 | | | | 7.0 | 21 49 | | |
| 13829 | " 20652 | " 52.7 | 38 21 | | | | 7.7 | 22 13 | | |
| 13830 | " 20695 | 21 58.7 | 39 03 | " | " | " | 7.6 | 22 25 | | |
| 13831 | " 6286 | " 58.7 | 39 04 | " | " | " | 7.4 | 22 39 | | |
| 13832 | " 20372 | 04 05.1 | 26 15 | " | " | " | 7.4 | 23 07 | | |
| 13833 | " 20776 | 04 08.9 | 29 39 | " | " | " | 7.1 | 23 13 | | |
| 13834 | " 4[illegible]7 | 04 21.1 | 27 42 | " | " | " | 7.5 | 23 57 | | |
| 13835 | " H[illegible]36 | 04 21.7 | 29 17 | " | " | " | 7.5 | 23 51 | | |
| | Fine | Very | | | O.T.B. | | | | | |

Dome Temp. 42

Focus 12.93 1

Dome Temp. 41.0

Transparency Conditions fair, haze

| Reading Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | 24 W | | | | | | | |
| | 23 W | | | | | 1-1-1 | | Fine |
| | 21½ W | | | | | 1-1-1 | | Fine |
| | 20 W | | | | | 1-1-1 | | Good |
| | 18 W | | | | | 1-1-1 | | Good |
| | 16 W | | | | | 1-1-1 | | Fine |
| | 14 W | | | | | 1-1-1 | | Fine |
| | 12 W | | | | | 1-1-1 | | Fine |
| | 10 W | | | | | 1-1-1 | | Fine |
| | 8 W | | | | | 1-1-1 | | v. Good |
| | | | | | | 4/3 | | Focus OK |
| | | | | | | | H P H Land | |
| | | | | | | | Hon M, 5 Platens Box | |
| | | | | | | | Plate #5 in Black Box | |
| | | | | | | | in Dark | |

289

Date Sun., Oct 21-22, 1951 Observer Wm-L Julian Day 2 433 941

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18 618 | 31 Cygni | 20 10·5 | +46°26′ | I-12 | E103a-O | SET 008 | +11.7 | 20 07 | 20 08 | 1 |
| | | | | | | | | 10 | 12 | |
| | | | | | | | | 14 | 19 | |
| 18 619 | HD 208750 | 21 53·3 | +26 45 | " | " | " | +11·7 | 20 32 | 21 53 | 2 |
| 18 650 | HD 208987 | 21 55·0 | +29 25 | " | " | " | +11·6 | 21 57 | 23 27 | 3 |
| 18 651 | HD 6525 | 01 01·1 | +29 10 | " | " | " | | 2[illegible] 32 | [illegible] 32 | 4 |
| | Stan Stan | | | | | 0.TB | | | | |

Dome Temp. +50° F
Focus 12.93.1
Dome Temp.

Transparency Conditions Considerable Haze

Starting delayed by fogging tendency of secondary mirror.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | 46° 37′ | 0 | 4.05 | K0,B8 | 4 | SET 2 MIRROR ASTIGMATIC | |
| | | | | | | 4 | SET 5 | |
| | W 48 | | | | | 4 | SET 8 | |
| | W 39 | +27 01 | 0 | 3.70 | G5 | 1-1-1 | AG 25 | Fine |
| | W 12 | +89 10 | 0 | 3.53 | K2 | 1-1-1 | " | Good |
| | E 10 | 29 20 | 0 | 8.33 | G5 | 1-1-1 | " | Fine |
| | | | | | | 4 3 | | |

| | HC | SC | HTW | ST.W$_{20}$ | SW |
|---|---|---|---|---|---|
| Oct 22 | −18.2$^s$ | +42.9$^s$ | −19.2$^s$ | −~~18.8~~ | −9$^s$ |
| Oct 24 | −48.2$^s$ | +44.6$^s$ | −00.8$^s$ | −.5$^m$ | −29$^s$ |

Date Thurs Oct 25-26/15 Observer Hd - Hr Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | F | Hour Angle End | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW 3/12 | | | | | | | | | | | |
| - 18652 | HD 180398 | 19 11.3 | +12 56 | I-12 | E103aO | 008 | 12.1 | 18 17 | 18 53 | 1 | 11 35 | |
| 18653 | 31 Cygni | 20 10.5 | 46 26 | " | " | " | " | 18 58 | 18 59 | 2 | | |
| | | | | | | | | 19 00 | 19 02 | | | |
| | | | | | | | 12.1 | 19 02 | 19 07 | | h 51 | 46 |
| 18654 | AG 11970 | 20 50.2 | 30 14 | " | " | " | 12.1 | 19 12 | 20 08 | 2 | 07 | |
| | MW 3/12 | | | | | | | | | | | |
| 18655 | HD 180398 | 19 11.3 | +12 56 | " | " | " | 12.0 | 20 13 | 20 45 | 4 | 37 | |
| 18656 | HD 208276 | 21 50.1 | 29 47 | " | " | " | 12.1 | 20 48 | 21 24 | 1 | 13 | |
| 18657 | HD 208379 | 21 50.8 | 25 27 | " | " | " | 12.0 | 21 26 | 22 16 | 2 | 2 | |
| 18658 | HD 208415 | 21 51.0 | 30 21 | " | " | " | 12.0 | 22 08 | 22 38 | 3 | 24 | |
| 18659 | HD 207740 | 21 46.1 | 28 18 | " | " | " | 12.0 | 22 41 | 23 03 | 4 | 3 11 | |
| 18660 | HD 207379 | 21 43.4 | 29 16 | " | " | " | 12.0 | 23 06 | 23 36 | | 3 46 | |
| | MW 13 | | | | | | | | | | | |
| 18661 | HD 9105 | 01 24.6 | 12 51 | " | " | " | 11.9 | 23 46 | 23 58 | 2 | 4 | |
| - 18662 | 11 Cet | 01 55.6 | 59 12 | " | " | " | 11.9 | 00 02 | 00 37 | 1 | | |
| 18663 | 15-17 Cet | 02 34 | 7 30 | " | | | 11.9 | 00 48 | 01 24 | | | |
| 18664 | 23-25 Cet | 04 41 | 4 56 | " | " | " | 12.0 | 01 32 | 02 14 | | | |
| 18665 | 17 Cet | 01 [illegible] | 2 34 | " | " | " | 12.0 | 02 30 | 03 [illegible] | | | |

Dome Temp. 54F

Focus 12.931

Dome Temp.

Transparency Conditions Good – in fact excellent



| Reading Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W 1 35 | 13 01 | 1 | 7.7 | B(3)n | 1-1-1 | Be Bin | fine |
| | | | | | | 4 | Set 1 | fine |
| | | | | | | 4 | " 5 | |
| | W 0 51 | 16 37 | 1 | 4.95 | K0 | 4 | " 9 | |
| | W 1 07 | 30 27 | 1 | (8.9) | G0 | 1-1-1 | AG Southern of pair. | |
| | W 3 27 | 13 03 | 2 | 7.7 | B3ne | 1-1-1 | Be Bin | |
| | W 1 28 | 30 02 | 2 | 8.63 | K0 | 1-1-1 | AG | fine |
| | W 2 09 | 25 43 | 2-1 | 8.64 | G5 | 1-1-1 | " | fine |
| | W 2 41 | 30 39 | 2 | 8.33 | K0 | 1-1-1 | " | fine |
| | W 3 11 | 28 34 | 2 | 8.20 | G5 | 1-1-1 | " | fine |
| | W 3 46 | 29 30 | 2 | 8.51 | K0 | 1-1-1 | " | fine |
| | 0 27 W | 63 06 | 2 | 7.32 | B5(e) | 1-1-1 | Be Bin. | fine |
| | 0 28 W | 59 27 | 1 | 8.0 | B(e) | 1-1-1 | " " | fine |
| | 0 44 W | 70 15 | 0 | 7.8 | B+n | 1-1-1 | " | |
| | 0 34 E | 43 13 | 0 | 8.3 | G0p | 1-1-1 | Baldwin's # [illegible] | fine |
| | 1 12 E | 25 31.5 | 0 | 8.65 | M0 | 1-1-1 | AG 25 | fine |

293

Date Oct 26 cont'd Observer H. Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AG 3+11 | | | | E 103 a O | | 11.1 | | | |
| 2 | AD 4 | | | | | | 11.9 | | | |
| 3 | " 4 | | | | | | 11.8 | | | |
| | | | | | O T B. | | | | | |

Dome Temp. 44.5°F

Focus

Dome Temp. 43°F

Transparency Conditions

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 12 E | 27 21 | 0 | 8.86 | $G_0$ | 1-1-1 | | |
| 5 W | 2 5 0 5 | 0 | 8.93 | $G_0$ | 1-1-1 | | |
| 7 W | 2 4 44 | 0-1 | 8.16 | $K_2$ | 1-1-1 | | |
| | | | | | 11/3 | 3 P.H. Stopped. | |
| | | | | | | 8 p Stars in Dome | |
| | | | | | | Hor M. | |
| | | | | | | HC SC HTW STW SW | |
| Dec 26 | | | | | | -49.2 s +50.9 s -19.2 s -.8 m -40 s | |

Date Sat Oct 27-28/51 Observer Hd — Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18669 | HD 206979 | 21 40.7 | 28 46 | I-12 | E103a O | 008 | +7.5 | 21 43 | 22 49 | 2 |
| 18670 | HD 9405 (9403) 13 | 01 24.6 | 62 51 | " | " | " | 7.4 | 22 55 | 23 29 | 3 |
| | Zenith Test | | | | | | | | | |

Dome Temp. 38°C at 2130

Focus 12.931

Dome Temp.

Transparency Conditions Excellent

About 200 visitors from 1830 to 2130. Hd, Ht showed M.S with 74", H with 5".

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | √3 11 | 29 00 | 0 | 8.58 | K0 | 1-1-1 | AG. proj. Becoming hazy. | |
| | J0 06 | 33 05 | 0 | 7.22 | B5(e) | 1-1-1 | Be Brn. Star all but lost in haze. | |
| | | OTB. | | | | 6/4 | 1 PH + 8 Hom | |
| | | | | | | | HC SC HTW STW SW | |
| | | | | | | | Oct. 29 -49.2s +54.0s +28.2s -.1m -9s. | |

Date Nov. Dec. 30/31 1951 Observer Ha — Julian Day 3950

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18671 | 31 Cygni | 20 10.5 | +46 26 | I 42 | E 103a-D | 2.5 0.97 | 10.0 | 18 02 | 18 23 | |
| | | | | | | | | 18 05 | 18 27 | |
| | | | | | | | | 18 08 | 18 29 | |
| 18672 | NWC 312 P.C. 190 393 | 19 11.3 | +12 56 | " | " | " | 10.3 | 18 31 | 18 | |
| 18673 | 8 Herc | 17 52.8 | +37 16 | " | " | " | 10.3 | 19 | 19 | |
| | | | | | | | | 19 | 19 | |
| | | | | | | | | 19 | 19 | |
| 18674 | 110 Herc | 18 41.4 | +30 27 | " | " | " | 10.3 | 19 24 | 19 25 | |
| | | | | | | | | 19 27 | 19 27 | |
| | | | | | | | | 19 30 | 19 | |
| 18675 | NGC 1912 e5 | 5 27.5 | +27 55 | " | | " | 10.2 | 19 | 20 21 | |
| 18676 | ν Peg. | 23 20.4 | +22 51 | " | " | " | 10.2 | 20 25 | 20 | |
| | | | | | | | | 20 | 20 | |
| | | | | | | | | 20 | 20 | |
| 18677 | ε Cep. | 23 25.2 | +73 04 | " | " | " | 10.2 | 20 | 20 | |
| | | | | | | | | 21 | 21 | |
| | | | | | | | | 21 | 21 | |

Dome Temp. 51 °F

Focus 12.931

Dome Temp.

Transparency Conditions



| Reading Time L.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | 0-1 | 4.95 | K0-K3 | 4 | Sat 2 | fair |
| | | | | | | 4 | " 5 | |
| | 0 18 | 46 35 | | | | 4 | " 9 | |
| | 2 24 | 13 02 | 2 | 7.7 | B8 nc | 1-1-1 | Bc binary | fair |
| | | | 0 | 5.10 | M1-III | 4 | Mc Sat 2 | fair |
| | | | | | | 4 | 5 | |
| | 2 40 | 37 16 | | | | 4 | 9 | |
| | | | 0 | 4.7 | F5-IV | 1 | Sat 2 Sat Emission | fair |
| | | | | | | 4 | 5 | |
| | 3 07 | 2 30 | | | | 4 | 9 | |
| | 2 06 | 2 06 | 0 | 2.94 | G0 | 1-1-1 | AG 25 | fair |
| | | | | 5.2 | F2 III | 4 | Sat 2 Sat Emission | fair |
| | | | | | | 4 | 5 | |
| | 0 22 | 23 10 | 1 | | | 4 | 1 | |
| | | 47 21 | 1 | 4.4 | K1 IV | 4 | Sat 2 Sat Emission | fair |
| | 0 15 | | | | | 4 | 9 | |

Date ..... Observer ..... Julian Day .....

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18677 | ε Psc | 00 37.3 | +7 55 | 40 | 3 F | 2.6 | 10.2 | 21 13 | 21 14 | 3 |
| | | | | | | | | 21 17 | 21 19 | |
| | | | | | | | | 21 20 | 21 24 | |
| 18678 | H.D. 208700 | 21 53.0 | +25 50 | 40 | 3 F | 11 | 10.2 | 21 32 | 21 37 | 4 |
| 18679 | H.D. 208715 | 21 51.0 | +32 21 | 40 | 3 F | 11 | 10.2 | 22 02 | 22 04 | 1 |
| 18680 | ν Cep. | 21 13.8 | +57 42 | 40 | 3 F | 11 | 10.2 | 22 53 | 22 57 | 2 |
| | | | | | | | | 22 56 | 23 00 | |
| 18682 | 107 Psc. | 23 37.1 | +14.7 | 40 | 3 F | 11 | 10.2 | 23 11 | 23 15 | 3 |
| | | | | | | | | 23 16 | 23 19 | |
| 18683 | H.R. 1327 | 04 11.3 | 14 59 | 40 | 3 F | 11 | 10.2 | 23 36 | 23 40 | 1 |
| | | | | | | | | 23 40 | 23 50 | |
| 18684 | HD 9113 | 01 [illegible] | +6 38 | 40 | 3 F | 11 | 10.2 | 0 10 | 0 13 | |
| 18685 | HD 15 M | 0A 26.2 | 1 14 | 40 | 3 F | 4 | 10.2 | 0 35 | 0 38 | |
| 18686 | " M66 | 03 09.0 | 15 37 | 40 | 3 F | 11 | 10.2 | 0 40 | 0 41 | |
| 18687 | " M65 | 03 [illegible] | 20 19 | 40 | 3 F | 11 | 10.2 | 0 41 | 0 200 | |
| | Focus Test | | | | O.T.13 | | | | | |

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions.....

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | +5 22 | 2 | 4.9 | F5 V | 4 | | fine |
| | | | | | 4 | 5 | |
| 0 03 | | | | | 4 | 9 | |
| 2 22 | +29 05 | 1-2 | 7.3 | K5 | 1-1-1 | A 325 | fine |
| 3 06 | +33 37 | 1 | 8.3 | K0 | 1-1-1 | AG 25 | fine |
| [illegible] | +57 54 | 0 | 5.1 | F0 Ib | 4 | [illegible] | fine |
| 1 03 | | | | | 4 | 7 | |
| | | 1-2 | 6.1 | K1 V | 2-2 | [illegible] | fine |
| 0 01 | 39 23 | | | | 2-2 | 7 | |
| | 65 30 | 0 | 5.2 | F5 IV | 2-2 | [illegible] | fine |
| 2 28 | [illegible] | 1 | | | 2-2 | [illegible] | |
| [illegible] | 55 5[illegible] | 0 | 6.9 | K4 | 2-2 | | fine |
| [illegible] | 1-29 | 0 | 7.7 | A2 | 1-1-1 | KA 20 | I weak |
| [illegible] | 1[illegible]7 | 0 | 8.0 | A5 | 1-1-1 | KA 71 | fine |
| | 32-30 | 0 | 7.9 | A0 | 1-1 | [illegible] | I weak |
| | | | | | 4/3 | Exposure [illegible] anything in good [illegible] | |

3

~~4~~ P. H. Loaded.

12 Plates in Phot.

H. on M.

301

| | HC | SC | HTW | STW | SW |
|---|---|---|---|---|---|
| Oct. 31 | −50.0$^s$ | +58.3$^s$ | +48.0$^s$ | +.2$^m$ | +30$^s$ |
| Nov 2 | −50.5$^s$ | +60.0$^s$ | +10.5$^s$ | −.3$^m$ | +18$^s$ |

**Date** Oct Nov. 3/4 1951 **Observer** HC **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18688 | α Lyr | 18 12.9 | 38 57 | I 12½ | C 103aO | W 008 | +0.4 | 18 45 | 18 47 | 2 | | |
| | HD 207243 | 21 42.5 | 2 | | | | | 18 49 | 18 54 | | | |
| 18687 | HD 207243 | 21 42.5 | 39 39 | | | | 0.0 | 18 59 | 20 17 | 2 | | |
| 18689 F | Tau [illegible] | | | | | | | | | | | |

Some Temp. 21
Focus 21
Dome Temp. 1

Dome Temp. 23° E

Focus 12.93.1

Dome Temp. 22½

Transparency Conditions Some local haze in south & west horizon



| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | 38 07 | 0 | 5.5 | KOE | 4 | Set 3 Blk Sum. | fair |
| | 2 12 | | | | | 4 | 7 | |
| | 1 05 | 27 53 | 0 | 3.67 | KO | 1-1-1 | AG=5 | wfc |
| | | [illegible] | | | | 4/3 | 20 3: [illegible] | O.K |
| | | | | | | | took [illegible] | c |
| | | | | | | | 4 RH [illegible] | |
| | | | | | | | N. on M | |
| | | | | | | | Cleared in [illegible], closed OK L | |

3955

Date June Nov 4-5, 1971 Observer D.L. - H. Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 18690 | HD 180398 MWC 312 | 19 11.3 | 12 56 | 3.12 | E103a0 | 5.0T 008 | -0.8 | 18 32 | 19 20 | 1 |
| 18691 | HD 201669 | 21 06.0 | 26 53 | " | " | " | -0.8 | 19 24 | 20 16 | 2 |
| 18692 | HD 203171 | 21 15.5 | 27 04 | " | " | " | -0.8 | 20 19 | 21 29 | 3 |
| 18693 | HD 212943 | 22 22.8 | +4 12 | " | " | " | -0.5 | 21 35 | 21 41 | 4 |
| 18694 | HD 219800 | 23 ~~13.6~~ | 27 ~~28~~ 04 | " | " | " | -0.9 | 21 46 | 22 16 | 1 |
| 18695 | HD 2713 | 0 25.6 | 27 34 | " | " | " | -0.8 | 22 19 | 23 29 | 2 |
| 18696 | HD 5555 | 0 52.5 | 28 59 | " | " | " | | 23 32 | 00 13 | 3 |
| 18697 | HD 7300 | 01 21 | 3 55 | " | " | " | | 00 35 | 01 35 | 1 |
| 18698 | HD 17382 | 02 42.2 | 3 10 | " | " | " | | 01 37 | 02 19 | 2 |
| 18699 | HD 20357 | 03 41.0 | 4 30 | " | " | " | | 02 37 | 03 19 | 3 |
| 18700 | " 49591 | 07 31.1 | 3 38 | " | " | " | | 04 19 | 04 45 | 4 |
| 18701 | " 49141 | 07 31.8 | 3 19 | " | " | " | | 05 24 | 06 11 | 1 |
| | Vacuum Leak | | | | D.T.S. | | | | | |
| | | | | | | | not recorded | | | |

Dome Temp. 26 F
Focus 12.932
Dome Temp. 16 F

Transparency Conditions Fair

Delayed by snow (roads & Telescope)

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| W 2 42 | 13 04 | 0 | 7.7 | B3 nc | 1-1-1 | Bet. Bin. | fine. |
| W 1 45 | 27 07 | 0 | 8.36 | K0 | 1-1-1 | AG. | fine |
| W 2 48 | 27 19 | 0 | 8.43 | G5 | 1-1-1 | " Pair low on plate, needs cleaning | fine |
| W 1 53 | 4 26 | 0 | 5.93 | K0 | 1-1-1 | Std Vel | fine |
| W 1 37 | 27 20 | 0 | 7.91 | K0 | 1-1-1 | A.S. | fine |
| W 1 38 | 27 51 | 0 | 8.00 | G0 | 1-1-1 | " | fine |
| 1 57 W | 29 16 | 1 | 8.22 | K0 | 1-1-1 | " Faint | comp wk fine |
| W | | | | | | " | good |
| W | | | | | | " | ~~fine~~ |
| W | | | | | | Bin? | fine |
| W | | | | | | | fine |
| W | | | | | | wrong star of pair in finder | fine, guiding wk |
| | | | | | 4/3 | 4 P.H. 2 Pl in D. H in M. | |

Mean: Ml −50.0s  Sc +64.2s  M T a 3 +42.0s  St W m +7.3  S W −9s

**Date** Mon., Nov. 5/6, 1951 **Observer** Wm - H. **Julian Day** 2 433 956

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SET | | | | | | |
| 18702 | HD 203 288 | 21 16·2 | +25 49 | I-12½ | E 103a-O | 008 | -2·4 | 17 55 | 18 57 | 1 | | |
| 18703 | HD 205 287 | 21 29·2 | +27 10 | " | " | " | -2·6 | 19 01 | 20 21 | 2 | | |
| 18704 | HD 212 943 | 22 22·8 | +04 12 | " | " | " | -2·6 | 20 28 | 20 33 | 3 | | |
| 18705 | HD 214 332 | 22 32·3 | +29 13 | " | " | " | -2·8 | 20 41 | 22 41 | 4 | | |
| 18706 | AG 710 | 01 08·5 | +25 45 | " | " | " | -2·8 | 22 48 | | 1 | | |
| 18707 | HD 19315 | 06 43·0 | +22 27 | " | " | | -2·8 | 01 35 | | 2 | | |
| 18708 | " H9500 | 06 43·1 | +15 36 | " | " | " | -2·5 | 03 [illegible] | [illegible] | 3 | | |
| 18709 | " 516 89 | 06 53·3 | +15 22 | " | " | | -2·6 | 04 14 | | 4 | | |
| | ~~" 5 [illegible] 91~~ | | | | | | | | | | | |
| | ~~Fond~~ | Not | | O.T.B. | | | | | | | | |

Dome Temp. +23°F

Focus 12.9.31

Dome Temp.

Transparency Conditions O.K.
Cloud on N horizon

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 0W17 | +26 03 | 0! | 8.65 | K5 | 1-1-1 | AG25 | wk |
| | 1W31 | +27 24 | 0! | 8.89 | K5 | 1-1-1 | AG25 | wk |
| | — | +04 28 | 0! | 5.93 | KO | 4 | Vel Std | wk |
| | 2W48 | +29 29 | 0 | 8.91 | G5 | 1-1-1 | AG25 | fine |
| | 2.4W | 26 03 | 0 | 8.99 | KO | 1-1-1 | AG25 | fine |
| | 130E | 28 36 | 0 | 8.75 | G5 | 1-1-1 | " " | wk |
| | 057E | 27 33 | 0 | 8.51 | K2 | 1-1-1 | | fine |
| | 10.6W | 25 18 | 0 | 8.21 | G5 | 1-1-1 | AG25 | |
| | | | | | | | From finder field chic it HD51689 | |
| | | | | | | 4/3 | | centre to red |
| | | | H. P. Fr. Loaded. | | | | | |
| | | | Fl. Fr. Needed. | | | | | |
| | | | H.a.a. M. | | | | | |
| | | | | | | | Navg HC -46.0s SC +69.3s MCW -14.0s STW -8s SCW -42s | |

Date Tri Nov. 9-10 / 251 Observer Ha — Hr Julian Day 3960

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18710 | η Cep | 20 43.2 | 61 27 | I-10½ | B 103a-0 | .004 | +4.0 | 17 49 | [illegible] | |
| | | | | | | | | 17 51 | 17 52 | |
| | | | | | | | | 17 53 | 17 54 | |
| 18711 | μ Cep | 21 40.4 | 58 19 | " | " | " | +4.0 | 17 05 | 17 06 | 2 |
| | | | | | | | | 17 07 | 17 10 | |
| | | | | | | | | 17 11 | 17 13 | |
| 18712 | 75 Cyg | 21 36.3 | 42 49 | " | " | " | +4.0 | 17 28 | 17 27 | 2 |
| | | | | | | | | 17 29 | 17 32 | |
| | | | | | | | | 17 33 | 17 41 | |
| 18713 | BD 20°5365 | 21 34.7 | +29 52 | " | " | " | +4.0 | 17 49 | 17 47 | 2 |
| 18714 | 16 Cyg Bb | 19 39.2 | 50 13 | " | " | " | 4.0 | 19 31 | 19 35 | |
| | | | | | | | | 19 36 | 19 [illegible] | |
| 18715 | 16 Cyg (Fol) | 19 39.7 | 50 12 | " | " | " | +4.0 | 19 48 | 19 52 | 2 |
| | | | | | | | | 19 52 | 20 [illegible] | |
| 18716 | 9 Peg | 21 39.8 | 16 53 | " | " | " | +4.0 | 20 05 | [illegible] | |
| | | | | | | | | 20 07 | 20 10 | |
| | | | | | | | | 20 11 | [illegible] | |

Dome Temp. 73° F

Focus 12.925

Dome Temp.

Transparency Conditions at first - clearing

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| 0 05 | 61 39 | | | | | | |
| | | 2 | | | | | |
| | | | | | | | |
| 0 28 | 55 33 | | | | | | |
| | | 2 | 6 6 | III/III | | | |
| | | | | | | | |
| 0 32 | 52 03 | | | | | Only two exposures on plate - ~~possibly last two exposures superposed~~ first exposure missing | |
| | | 2 | | | | Telescope drifted rapidly in dec while setting on star and during exposure continued drift | |
| | | 2 | | | | | |
| 3 01 | 15 24 | | | | | | |
| | | | | | | | |
| 3 15 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | +17 07 | | | | | | |

(cont'd)

**Date** Fri Nov 9-10 1951 **Observer** H a - Hr **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P |
|---|---|---|---|---|---|---|---|---|---|---|
| 18717 | A S 12385 | 21 16.5 | +29 42 | 1-12 | [illegible] | [illegible] | 4.0 | 20 23 | 21 13 | 4 |
| 18718 | c Peg | 21 31.2 | +9 25 | " | " | " | 4.0 | 21 20 | 21 30 | |
| | | | | | | | | 21 21 | 21 22 | |
| | | | | | | | | 21 23 | 21 24 | |
| 18719 | H D 212343 | 22 22.8 | +40 12 | " | " | " | 4.0 | 21 32 | 21 38 | |
| 18720 | H D 6132 | 00 57.4 | +29 27 | " | " | " | 4.0 | 21 45 | 22 18 | |
| 18721 | H.D 6525 | 01 01.1 | +29 10 | " | " | " | 4.0 | 22 28 | 22 58 | |
| 18722 | H D 7305 | 01 02.2 | +25 42 | " | " | " | 3.9 | 23 02 | 23 42 | |
| 18723 | H.D 14918 | 02 19.3 | +25 02 | " | " | " | 3.7 | 23 47 | 00 14 | |
| 18724 | H.D 20252 | 04 41.8 | +13 06 | " | " | " | 3.9 | 00 57 | 01 20 | |
| 18725 | [illegible] | [illegible] | [illegible] | " | " | " | 3.9 | [illegible] | [illegible] | |
| 18726 | [illegible] | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | |
| 18727 | [illegible] | [illegible] | [illegible] | " | " | " | 3.9 | 03 21 | 04 59 | |
| 18728 | [illegible] | [illegible] | [illegible] | " | " | " | [illegible] | [illegible] | [illegible] | |
| | Focus | Test | | | O. F. D. | | | | | |

ome Temp.....

ocus.....

ome Temp.....

Transparency Conditions.....

| Reading Time E.S.T. | our Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 2 50 | 27 55 | 2 | 3.26 | KO | 1-1-1 | AG 25 | |
| | | | 2 | 3- | 12Ib | 4 | | |
| | | | | | | 4 | T 30m | |
| | 2 37 | 7 7 37 | | | | 4 | 1 1 min | |
| | 2 58 | + 4 26 | 2 | 5.17 | K0 | 2-2 | Str Velocity | |
| | 0 13 | 29 44 | 2 | 3.62 | K0 | 1-1-1 | A.G 25 | fine |
| | 0 50 | 29 35 | 2 | 3.13 | G5 | 1-1-1 | A.G 25 | good |
| | 1 27 | 25 37 | 2 | 3.33 | K2 | 1-1-1 | A G 25 | good |
| | NW | 27 18 | 2 | 3.37 | G0 | 1-1-1 | A G 25 | fine |
| | E | 43 13 | 2 | 3.3 | G0 | 1-1-1 | B | |
| | E | 20 40 | 2-1 | 3.77 | K | 1-1-1 | A G | |
| | E | 26 46 | 1 | 3.24 | G0 | 1-1-1 | | wk |
| | W | 25 18 | 1 | 3.47 | G0 | 1-1-1 | | fine |
| | SW | 29 51 | 0-1 | 3.68 | K0 | 1-1-1 | Sat., Nov 10/11 '51. Solid overcast; some rain. Clearing somewhat at abt midnight - Wind | fine |
| | | | | | | 4/3 | | |

1 P
4 PL
tl

Date Sun 11/12 Nov Observer P.a Julian Day 3762

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P |
|---|---|---|---|---|---|---|---|---|---|---|
| 18729 | WWC 1 | 19 11.3 | 12 [illegible] | 17 | [illegible] | 1.0 | +4.3 | 1910 | [illegible] | [illegible] |
| 18730 | HD 209379 | 21 [illegible] | 25 27 | " | " | " | +6.3 | 2005 | 2100 | |
| 18731 | 209376 | 21 50.1 | 29 47 | " | " | " | +6.2 | 2104 | 2200 | |
| 18732 | 209740 | 21 46.1 | 2818 | " | " | " | 6.1 | 2209 | 2254 | |
| 18733 | 209750 | 21 [illegible] | 26 45 | " | " | " | | 2249 | 0004 | |
| ~~18734~~ | ~~" 1194~~ | ~~01 47.6~~ | ~~2531~~ | | | | | | | |

Dome Temp 40
Focus 12925
Dome Temp.

Hour Angle End

Dome Temp. 40

Focus 12.925

Dome Temp.

Transparency Conditions Clouds [illegible] after [illegible]. Transparency good

Watch [illegible] stopped

Reset roughly from clock. ST is now 1.3$^m$ slow, MT o.k.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 348W | 13 01 | 0 | 7.7 | Pe | 1-1-1 | Be Prog. [illegible] | |
| 209W | 25 [illegible] | 0-1 | 8.4 | G5 | 1-1-1 | AG Prog. Numbered 18731 in error | |
| 309W | 30 01 | 0-1 | 8.6 | K0 | 1-1-1 | " [illegible] | |
| 358W | 25 32 | 0 | 8.2 | G5 | 1-1-1 | " (Numbered 18734 in error) | |
| | | | 8.70 | G5 | 1-1-1 | " [illegible] | |
| | | | 8.2 | G5 | | Dome [illegible] | |
| | | | | | | No [illegible] clouded over | |

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| Nov 12 | $0.0^s$ | $-1^s$ | $-5.2^s$ | $.0^m$ | $-9^s$ |
| | $+.5^s$ | $+1.6^s$ | $+6.5^s$ | $+.8^m$ | $-22^s$ |

Mon, Nov 12/13 Solid overcast; drizzle. W.

Arrived at about 0025 [illegible] it was [illegible] overcast.

[illegible] lights [illegible]. Cap [illegible]

" Two plates in black [illegible] in Dome

Believe fogged when Dome lights [illegible]. [illegible]

Thurs Nov 15/16 — Broken cloud & cirrus — too thick to work. W.M.

2 P.H. Loaded. SPL in. Dome

H. on M. [illegible]

0110 Quite overcast.

0130 Still Quite overcast. [illegible] from S.W. Going Home [illegible]

Date Wed Nov 14 15 /51 Observer L- Julian Day 2,433,965.5

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18734 | HD. 207243 | 21 42.5 | 29 39 | J-12½ | E-103a-O | Set .028 | +11.9 | 19 58 | 20 54 | 1 |
| 18735 | " 207470 | 21 44.1 | 28 15 | " | " | " | +11.9 | 21 58 | 22 54 | 2 |

Dome Temp. +48°F
Focus 12.925
Dome Temp. +46°F

Transparency Conditions Good.

Strong winds, passing clouds. delayed opening 6.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 2 25 W | 29 54 | O | 8.67 | Ko | 1-1-1 | A.G. 25 | |
| | 3 54 W | 28 30 | O | 8.79 | Ko | 1-1-1 | " clouds - 21.30 to 21.45, more clouds wind increasing in velocity. Star jumping badly. While endeavoring to set on next star wind kept altering telescope in dec. drive when clamped. & closed up. | |
| | | | | | | | 4 PM 0 loaded + 4 | |
| | | | | | | | HC SC HTW STW SW | |
| | | | | | | | Nov 16 +1.8s +9.6s -37.2s -.3m -35s | |
| | | | | | | | " 18 +3.4s +12.1s -23.6s -.3m -39s | |
| | | | | | | | Sat., Nov 17/18. Solid overcast. Wm | |

315

**Date** Mon., Nov. 19/20, 1951 **Observer** Wm - H **Julian Day** 2433970

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MWC 312 | | | | | SE | | | | | | |
| 18 736 | HD 180 398 | 19h 11m 3 | +12° 56 | 2-12½ | E103a-O | 008 | -3°0 C | 18 16 | 19 06 | 1 | | |
| 18 737 | HD 204 079 | 21 21.1 | +26 46 | " | " | " | -3.1 | 19 12 | 21 12 | 2 | | |
| 18 738 | HD 217 576 | 22 56.6 | +28 10 | " | " | " | -3.2 | 21 16 | 22 16 | 3 | | |
| 18 739 | AG 814 | 01 21.3 | +26 59 | " | " | " | -3.1 | 22 21 | | 4 | | |
| 18740 | HD 29587 | 04 34.5 | +11 57 | " | " | " | -3.1 | | | 1 | | |
| 18741 | " 51089 | 06 53.3 | +15 23 | " | " | " | -3.1 | | | 2 | | |
| 18742 | " 51834 | 06 53.8 | +15 55 | " | " | " | -3.1 | | | 3 | | |
| 18743 | " 55578 | 07 08.4 | +8 38 | " | " | " | -3.1 | | 5 34 | 1 | | |
| 18744 | " 67506 | 08 [illegible] | +5 05 | " | " | " | -3.2 | | | 1 | | |
| | [illegible] | | | | O I, II. | | | | | | | |

Dome Temp. +24° F
Focus +2.927 (setting not changed!)
Dome Temp.

Transparency Conditions Good
Starting delayed by imminent clouds in W & E.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 3 W 27 | +13° 01' | 0 | 7.7 | B3ne | 1-1-1 | Be Bin' Considerable cloud in SE | weak |
| 3 W 23 | +27 01 | 0 | 8.96 | G5 | 1-1-1 | AG25 Still some cloud in SE | weak |
| 2 W 53 | +28 27 | 0 | 8.47 | K0 | 1-1-1 | AG25 " | weak |
| 2 31 W | +27 16 | 0 | 8.89 | K2 | 1-1-1 | AG25 Scattered cloud | weak |
| [illegible] | [illegible] | 0 | 7.85 | G2 | 1-1-1 | Standard Velocity [illegible] | fine |
| [illegible] | [illegible] | 0 | 7.4 | G0 | 1-1-1 | AG25 [illegible] | good |
| [illegible] | [illegible] | 0 | 8.68 | K0 | 1-1-1 | [illegible] | good |
| [illegible] | [illegible] | 0 | 8.74 | K0 | 1-1-1 | [illegible] | good |
| [illegible] | [illegible] | 0 | 7.98 | G5 | 1-1-1 | [illegible] | good |
| | | | | | 4/3 | 3 P.H. finished. 3 P.L. [illegible] Difficulty in closing shutters because of clutch slipping | |

Date Nov. Nov. 20-21 / 1951 Observer H2 - A - Julian Day 2 433 971

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18745 | H.D. 180 394 I MWC 312 | 19 11.3 | +12 56 | I-12½ | 6 103 0 | 50+ 10.8 | -3.7 | 17 37 | 17 | 2 | | |
| 18746 | AG +12398 | 21 17.0 | +29 51 | " | " | " | -3.8 | 17 33 | 20 | 3 | | |
| 18747 | H.D. 211334 | 22 18.2 | +25 13 | " | " | " | -3.5 | 20 03 | 21 | | | |
| 18748 | H.D. 216405 | 22 48.0 | +25 54 | " | " | " | -3.5 | 21 22 | 22 14 | 1 | | |
| 18749 | H.D. 1979 | 01 21.4 | -00 55 | " | " | " | -3.8 | 22 22 | 22 | | | |
| 18750 | H.D. 11464 | 01 42.6 | +25 21 | " | " | " | -3.7 | 22 51 | 23 41 | | | |
| 18751 | H.D. 44537 I MWC 129 | 06 17.7 | +11 07 | " | " | " | -3.8 | 23 51 | 0 | | | |
| 18752 | H.D. [illegible] | 0 [illegible] | -5 22 | " | " | " | [illegible] | [illegible] | [illegible] | 1 | | |
| 18753 | H.D. [illegible] | [illegible] | +5 23 | " | " | " | -3.1 | 0 [illegible] | 4 15 | | | |
| 18754 | AD (-) 176 | 07 52.4 | -01 20 | " | " | " | -3.9 | 2 43 | 0 | | | |
| 18755 | (1) [illegible] | [illegible] | [illegible] | " | " | " | -4.0 | [illegible] | [illegible] | | | |
| | Focus | Test | | | a.T.B. | | | | | | | |

Time Temp.
Focus
Time Temp.

Dome Temp. +24°5

Focus 12.937

Dome Temp. +15°5

Transparency Conditions Good

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 2 52 | +13 02 | 0 | 7.7 | B3ne | 1-1-1 | Be binary | weak |
| | 2 23 | +30 04 | 0 | 8.93 | K0 | 1-1-1 | AG 25 | weak |
| | 2 40 | +25 21 | 0 | 8.63 | K2 | 1-1-1 | AG 25 | weak |
| | 3 03 | +29 13 | 0 | 3.49 | G0 | 1-1-1 | AG 25 | too weak |
| | 1 02 | -00 40 | 0 | 7.49 | K0 | 1-1-1 | Std Vel. | weak |
| | 1 30 | +25 49 | 0 | 2.33 | G5 | 1-1-1 | AG 25 | too weak |
| | [illegible] | [illegible] | 0 | 7.6 | B3e | 1-1-1 | Be bi | " " |
| | [illegible] | [illegible] | 0 | [illegible] | [illegible] | 1-1-1 | AG +5 | " " |
| | [illegible] | [illegible] | 0 | [illegible] | [illegible] | 1-1-1 | AG +5 | " " |
| | [illegible] | [illegible] | 0 | 7.9 | B(e)-e | 1-1-1 | Be Bi | " " |
| | [illegible] | [illegible] | 0 | [illegible] | [illegible] | 1-1-1 | [illegible] | " " |
| | | | | | | 1/3 | | " " |
| | | | | | | | HPH | |
| | | | | | | | Bow 21 RE +4.8s SC +14.7s HTW +4.8s STW 1.2m SW +7s | |

all comps and * spectra very weak. Something wrong. Later found slot set at 001. Hd.

spots n.s.f.

Date Wed Nov 21/22, 1951 Observer Hd, L, Ba, Wm Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18756 | CygnusA field | 19 56·2 | +40 25 | Newt | E103a-O | | | 19h 54m 45s | 20 09 45 | |
| 18757 | " " | " | " | " | 1-N + A25 filte | | | 20 16 | 21 | |

Dome Temp.....

Transparency Conditions abt 1m extinction

Focus.....

Dome Temp.....

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 3W 51 | +40° 34' | 0! | | | | Hd guiding (Focussed on δ Cygni) | |
| | 5W 02 | " | | | | | Wm guiding Haze thickening | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | NC SC HTW STW SW | |
| | | | | | | | Nov 23 +7.5s +19.75 -23.8s -.2m -.75 | |

Date Sat Nov 24-25, 1951 Observer Wm-Hd-L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1950 | 1950 | | | | | | | |
| 18758 | Cygnus A -9m | 19 57.0 | 40 28 33 | Newt | I-N + A25 | | filter | 18 29 | 19 29 | 1 |
| 18759 | " | " | " | " | E-103aO | | | 19 55 | 19 45 | 2 |
| 18760 | " +7m | 19 58.8 | " | " | E-103aO | | | 19 [illegible] | 20 06 | |
| 18761 | " | " | " | " | I N | A 25 | filter | 20 35 | 20 45 | |
| 18762 | Cas A -10' | 23 21 2 | +58 42 | " | I N | A25 | Filter | 23 21 | 23 31 | |
| 18763 | " | " | " | " | E103aO | No filter | | 00 00 | 00 20 | |
| | Tau A -10' | " | +58 32 | | | | | | | |
| 18764 | Tau A -10' | 05 31.6 | +21 46 | " | I N | A 25 | filter | 02 05 | 02 21 | |
| 18765 | " | " | " | " | E103aO | No | filter | 02 27 | 02 39 | |
| 18766 | " +10 | " | +22 06 | " | E103aO | " | " | 02 51 | 03 01 | |
| 18767 | " +10 | " | " | " | I N | A25 | Filter | 03 08 | 03 [illegible] | |
| 18768 | " -10 | " | 22 45 | " | E103aO | No | filter | 03 27 | 03 37 | |

Dome Temp. 26 F

Transparency Conditions Excellent

Focus

Dome Temp.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 3 27 W | +40 23 | 0 | | | | Wm guiding. Focussed on η Cyg | |
| | 3 W 44 | +40 23 | 0 | | | | Hd guiding. Star hidden on S side | |
| | 1 W 02 | +40 28 | 0 | | | | Wm guiding. | |
| | ~~4 44 W~~ | | 0 | | | | Hd guiding. | |
| | 4 W 26 | 58 47 | 0 | | | | Hd guiding. Focussed on 1 Cas | |
| | 4 55 W | 58 47 | 0 | | | | Wm " Star hidden in mirrors. Had to use 4-inch. could'nt reach. Rolled on S side | |
| | | ~~58 27~~ | ~~0~~ | | | | | |
| | ← W 0 45 | | 0 | | | | Wm " | |
| | ← W 1 03 | | 21 45 0 | | | | " " Star hidden on E side Star blotted out when guiding | |
| | 1 W 25 | 22 06 | 0 | | | | Hd " | |
| | 1 47 W | 22 06 | | | | | 4hd. | |
| | 2 01 W | 21 45 | | | | | Wm Focussed on 1570.5 | |

**Date** Tues 27 Nov 51 **Observer** Wm Ba L Hr **Julian Day**

| Plate No. | Object | R.A. 1900 1950 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.A. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18769 | Area 19 | 19 45 5 | 44 57 | // | E [illegible] | | | 18 34 18$^s$ | 18 [illegible] 18$^s$ | |
| | Cyg A −.9" | 19 57.0 | 40 33 | " | " | | | 1842 40$^s$ | 1847 40$^s$ | |
| 18770 | Cyg A −.9" | 19 57.0 | 40 33 | " | E [illegible] | | | 1851 | 19 07 | |
| 18771 | Cyg A −.9" | " | " | " | I N | A2.5 Filter | | 174 | 1928 | |
| 18772 | Cyg A −.9" | " | " | " | E [illegible] | | | 1945 | 20 15 | |
| 18773 | Area 19 | 23 25.2 | +60 16 | N | " | | | 21 45 40 | 21 50 40 | |
| | Cyg A + 1$^m$.3 | 23 22.5 | +58 32 | " | " | | | 21 55.2 | 22 00 [illegible] | |

Dome Temp. 15

Focus

Dome Temp.

Transparency Conditions Good



| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | 44 54 | 0 | | | | Wm Guide | |
| | | 40 30 | 0 | | | | " " " | |
| | | 46 30 | 0 | | | | Wm Guide | |
| | | 40 28 | 0 | | | | L Guide | |
| | 4 E5W | 40 28 | 0 | | | | Wm Guide: slight drift | |
| | 2W33 | 60 13 | 0 | | | | L guiding | |
| | | +58 29 | 0 | | | | " " Light patches of haze guide [illegible] by 22:10 Cloud — Solid Warm front moving in Gave up 22:10 | |

| | HE | SC | HTW | STW | SW |
|---|---|---|---|---|---|
| Nov 28/31 | +10.5 s | +19.1 s | +5.5 s | +.2 m | +22.25 s |
| Nov 30 | +13.0 s | +20.7 s | −13.5 s | −.2 m | +2 s |

Date Fri Nov 30 - Dec 1/5 Observer Hd - L - Hn Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18774 | Kapteyn area 39 | 19 48.3 | 44 51 | N | 103aO | | | 17 03 10 | 17 [illegible] 10 | 1 |
| | Cyg A + 0.9 | 19 58.5 | 40 33 | " | " | | | 19 13 20 | 19 [illegible] 30 | 1 |
| 18775 | Cyg A + 0.9 | " | " | " | " | | | 19 21 | 19 37 | 2 |
| 18776 | " | " | " | " | I-N | 4 20m | | 19 41 | [illegible] | 1 |
| 18777 | Kapteyn area 11 | 22 25.2 | 66 42 | " | [illegible] | | | [illegible] | [illegible] | 2 |
| | Cass A + 15' | 23 22.5 | 58 35 | " | " | | | 21 36 | 21 [illegible] | |
| 18778 | " | " | " | " | " | | | 21 45 | 22 01 | 1 |
| 18779 | " | " | " | " | I-N | 4 4m | | 22 07 | 22 21 | 2 |
| 18780 | Cas A - 15' | 23 15.5 | " | " | [illegible] | | | 23 09 | [illegible] | 1 |
| 18781 | " | " | " | " | I-N | 4 4m | | 23 28 | 23 [illegible] | 2 |
| 18782 | " | " | " | " | [illegible] | | | 23 51 | [illegible] | 1 |
| | K Cas 19 | 22 25.2 | 60 16 | " | | | | 00 [illegible] | [illegible] | |
| 18783 | K Cas 73 | 05 16.8 | 15 02 | " | E103aO | | | 00 62 | 01 17 | |
| | Tau A - 10' | 05 31.6 | 21 56 | " | " | | | 01 04 | 01 01 | |
| 18784 | " | " | " | " | " | | | 01 15 | 01 31 | |
| 18785 | " | " | " | " | I-N | 2.5m | | 01 15 | 01 30 | |

Dome Temp. 41 F

Transparency Conditions Poor

326

Focus.....

Dome Temp.....

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 4h 3 38 E | 4 + 54 | | | | | L finding | |
| | 40 25 | | | | | L " | |
| 3 37 W | 40 25 | | | | | L | |
| | | | | | | H | |
| 2 33 W | 50 18 | | | | | L | |
| 2 38 W | 58 34 | | | | | HL | |
| 2 38 W | 58 34 | | | | | HL | |
| 2 38 W | " | | | | | HL | |
| 1 44 W | " | | | | | L | |
| 1 50 W | | | | | | L " | |
| | " | | | | | L " | |
| N 5 03 | | | | | | | |
| 0 01 E | 15 06 | | | | | HL | |
| 0 03 E | 21 58 | | | | | HL | |
| 1 12 W | " | | | | | HL | |
| 1 18 W | " | | | | | HL | |

Date Mar 30 Observer Adams Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P |
|---|---|---|---|---|---|---|---|---|---|---|
| 18736 | Tau A +10° | 5 31.6 | 22 16 | N | Eastman | | | 02 00 | 02 30 | |
| 18737 | " | " | " | " | I-N | | | 02 32 | 03 02 | |
| 18738 | " | " | " | " | Eastman | | | 02 55 25 | 03 25 25 | |
| | 4 Dec 75 | 5 46 18 | 15 55 | | " | | | 03 04 55 | 03 11 55 | |

ome Temp.....

ocus.....

ome Temp.....

Transparency Conditions.....

| Finding Time E.S.T. | our Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 10 W | 22 18 | | | | | L | |
| | 11 W | " | | | | | L " | |
| | 12 W | " | | | | | L | |
| | 12 15 | 15 55 | | | | | L " Hazy by Horizon & Thin | |

Saturday

Date Dec 1/2 1951 Observer Ha- Julian Day 2433932

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | Hr Angle End | Decl |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18789 | HD 212567 | 22 30.2 | +38 11 | F12½ | E103a-O | .004 | 46.7 | 18 18 | 18 18 | | |
| 18790 | HD 213025 | 22 33.5 | +26 21 | " | " | " | 47.0 | 19 23 | 19 39 | | |
| 15791 | AG +38 62 | 22 58.4 | +42 17 | " | " | " | 7.0 | 19 42 | 20 38 | | |
| 15792 | HD 223434 | 23 44.3 | +24 29 | " | " | " | | 20 [illegible] 42 | 21 00 | | |
| | from Kept | | | | | | | | | | |
| 18793 | HD 11592 | 1 47.7 | +40 08 | " | E103a-O | " | 46.8 | 22 24 | 22 46 | | |
| 18794 | MWC 49 HD 15472 | 2 24.4 | +70 30 | " | " | " | 46.5 | 22 55 | 23 21 | | |
| | | | | | O.T.B. ? - [illegible] | | | | | | |

Temp.
Temp.

ome Temp. 44°F

ocus 12 925

ome Temp.

Transparency Conditions

| Ending Time E.S.T. | our Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | V 1 18 | +32 36 | ① | 3.70 | K0 | 1-1-1 | BG 25 | |
| | V 1 36 | +26 40 | ① | 7.27 | K0 | 1-1-1 | AG 25 | |
| | V 1 57 | +25 35 | ① | 8.60 | G0 | 1-1-1 | AG 25 | |
| | | +26 43 | ① | 8.50 | K0 | 1— | AG 25 | Lwk |
| | | | | | | 4/3 | | |
| | V 1 13 | +10 24 | ① | 7.0 | F5 | 1-1-1 | High | |
| | V 1 15 | +70 45 | ① | 7.5 | Same | 1-1-1 | Be | Lwk |

331 (Sun-Mon Dec 2-3 [illegible])

Date Mon Dec 3 Observer — Hr Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|
| 18795 | HD 51284 | 06 57.9 | 2955 | I-12 | E103a-... | .002 | 4.5 | 0132 | 0148 | — |
| | Faint | Spect | | | C.T.B. | | | | | |
| | Plate shaky [illegible] weak and not centered [illegible] region. | | | | | | | | | |

Dome Temp. −5°F

Focus 12.925

Dome Temp.

Transparency Conditions fair
Hazy near Horizon
Some scattered

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 1–<br>4/3. | Late in starting because I had to fix [illegible] Mt. first half observer!! | |
| | | | | | | | 0142 Suddenly become very!! hazy. Can't see anything in guiding eyepiece | |
| | | | | | | | 0145 ☆!!??½!! HAZY!! → Stopped exposing. | |
| | | | | | | | 0203 quite hopeless Closing up. | |
| | | | | | | | 1 P. H. lost. | |
| | | | | | | | 4 + 12 plates in D. | |
| | | | | | | | H.C. on M. | |
| | | | | | | | Dec. 3 HC +13.2 SC +22.8 UTW +14.2 STW +.3m SW −20.5 | |

**Date** Monday Dec 3/a, 1951 **Observer** Wm - **Julian Day** 2 43 3984

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P | Hour Angle End | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 796 | HD 209 680 | 22 00.1 | +29°28' | I 12½ | E 1030 O | .038 | +5.0 C | 18 01 | 20 01 | | | |
| 18 797 | HD 3779 | 01 21.4 | − 00 55 | " | " | " | +5.0 | 20 08 | 20 38 | | | |
| 18 798 | HD 223 121 | 23 11.3 | +26 29 | " | " | " | +5.0 | 20 44 | 22 01 | | | |
| 18 799 | HD 19 618 | 03 04.4 | +15 01 | " | " | " | +5.0 | 22 11 | 01 11 | | | |
| 18 800 | " 51 594 | 06 [illegible] | [illegible] | | | | [illegible] | 01 21 | [illegible] 08 05 | | | |

G.T.B.

Dome Temp. 40.° F.
Focus 12.926
Dome Temp.

Transparency Conditions Considerable Haze

334

Starting delayed by cumulus clearing

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 2^W 29 | +20°45' | 0 | (2) 9.99 | K5 | 1-1-1 | AG 25 MIRROR ASTIGMATIC | Lwk |
| | 0^E 10 | - 0°39' | 0 | 7.49 | KO | 1-1-1 | Std Vel | good |
| | 2^W 49 | +26 48 | 0 | 8.50 | KO | 1-1-1 | AG 25 Less haze – but some cloud in W | fair |
| | 1.35 W | +15°14' | 0 | 9.7 | F8 | 1-1-1 | Hi Vel | v. good |
| | 020 E | +[illegible] 5 | 0 | 2.02 | Ko | 1-1-1 | A.G. 25 0137 Cloud? Aper 0150 Back to [illegible] 0200 Cannot see anything in either eyepiece. 0205 Exposure cut short by 16m. 0215 No sign of breaking Closing up. | good? |
| | | | | | | 4/3 | | |
| | | | | | | | 4 P.H. Scaled P.E. — D. H — M. | |
| | | | | | | | I was Dec 4 Rain afternoon and early evening. Clearing about 8-9, found telescope wet and dew dripping did not open. L. Yes 5 | HC +17.5^s SC +23.4^s HTW −5.0^s ΔTW +0.1^m SW +29^s |

Date Thurs Dec 5-6, 1951 Observer Hd- Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18801 | HD209858 | 22 01.3 | 27 29 | I-12 | E103aO | 0.08 | +0.7 | 19 13 | 20 03 | 1 | 1.4 |

Dome Temp.... 43.F
Focus..... 12.925
Dome Temp.....

Transparency Conditions Poor

Clearing with fog + haze after sunset.



| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 1 2 41 | 27 45 | 1-0 | 7.72 | Go | 1-1-1 | very poor transit. Tuck 1740-1755 very thick fog higher than dome. Clearing. Clear + cloudy at intervals thereafter. | fine |
| | | | | | | | Row 7 HC +19.5' SC +24.3' NTW -27.5' STW -.6m SW +10' | |

**Date** Fri, Dec 7/8, 1951 **Observer** Wm - Hr **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18802 | HD 8779 | 01 21.4 | -00 53 | I-12½ | E103a-0 | SE 008 | +11.5 | 20 13 | 22 47 | | |
| 18803 | HD 21 543 | 03 23 4 | -06 52 | " | " | " | +11.5 | 21 27 | 22 57 | | |
| 18804 | HD 27 821 | 04 18.4 | +06 08 | " | " | " | +11.5 | 23 03 | | | |
| 18805 | +15° 838 | 05 25.5 | +15 47 | " | " | " | 11.2 | 00 44 | 03 24 | | |
| 18806 | HD 61645 | 07 35.2 | 2608 | " | " | " | 11.0 | 02 40 | 03 11 | | |

GT 13

(Off to get actual [illegible] and [illegible] data.)

Dome Temp. +50°F

Focus 12:9.25

Dome Temp.

Transparency Conditions Some cloud on horiz; haze



| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | 0ʷ08 | -00 38 | 0! | 7·49 | K0 | 1-1-1 | Std Vel | High wind<br>The ultimate in poor seeing ← Should 13 Air force types (in 74" | Towards |
| | 0ʷ18 | -06 41 | 0 | 8·7 | G0 | 1-1-1 | Hi Vel | | weak |
| | 0052W | +0617 | 0 | 8·8 | A5 | 1-1-1 | Hi Vel | 0022 Light cl[oud] n.w. NW, N. | gerual |
| | 0142W | 15-4605 | 0 | 9.3 | F8 | 1-1- | Hi Vel | 0127 Cloud [illegible] heavy in N. Light cloud coming from W. passing [illegible] | good |
| | — | 1600 | 011. | 8.99 | K2 | 1- | AG25 | 0134 Cl[illegible] off. | Towards |
| | | | | | | H/3 | | 0220 Image very jumpy. forget last sec. of comp. | |
| | | | | | | | | 0247 Heavy haze W. NW. N. | |
| | | | | | | | | 0302 Much heavy cloud all horizon. Wind has moved from eighth 4th times. | |
| | | | HC | TC | HTW | STW | SW | 0306 STAR. some in eye piece. | |
| | 12h.10 | +21.8 s | +25.5 s | -7.2 | -0.1 m | -4 s | | 0309 SKY completely [illegible] | |
| | 12 | +22.2 s | 23.9 | +29.2 s | +0.6 m | -18 s | | 0351 STILL Quite solid. Heard weather office say they only 1 clear in 3 of them to staying up. | |
| | | | | | | | | 2 P.H. ended 4 Pl in D. | |
| | | | | | | | | H — M. | |

339

Date ... 1951 ... Observer ... Julian Day ...

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18807 | AS 13194 | 22 03 | 20 53 | 3-12" | E 103a-D | wide | -25 | 10 30 | 2015 | |
| ~~18808~~ | ~~AS 13195~~ | 22 312 | 29 3[illegible] | " | " | " | | 20 45 | | |
| 18808-A | | | | | | | | | | |
| | Focus [illegible] 7/3 | | | | | | | | | |

Temp.
Focus
Temp.
Hour Angle End

Dome Temp. 24

Focus 12925

Dome Temp.

Transparency Conditions Cloud [illegible] Variable

340

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W 3 10 | 26 47 | <0 | [illegible] | [illegible] | 1-1-1 | As | [illegible] |
| | | 29 50 | 0 | [illegible] | [illegible] | 1- | " Heavy cloud at 20 30 - 20 45 | |
| | | | | | | | 20 55 - 21 10 Continued heavy cloud 2130 so giving up. | |
| | | | | | | | Apt landed. Hawked plates [illegible] | |

Thurs Dec 13-14. Clear patches just after sunset. Thick from about 1830 → 2230.

| | HE | DC | HTW | DTW | STW |
|---|---|---|---|---|---|
| Dec 14 | +25.2 s | +24.9 s | -17.8 s | -0.2 m | -3.0 s |

Date Sat Dec 15-16, 1951 Observer HL- Julian Day 3996

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18808 | HG 1355 | 22 31.2 | 29 35 | I-12 | E 103a O | 008 | -8.7 | 17 46 | 19 16 | / | 2.1 |
| 18809 | HD 219654 | 23 12.4 | 29 20 | " | " | " | -8.9 | 19 23 | 20 33 | = | 2.3 |

Dome Temp. 710F

Focus 12.725

Dome Temp.

Transparency Conditions Good



| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| 1 | W 2 00 | 29 50 | 0 | 8.75 | F50 | 1-1-1 | Guiding very bad at first. | L. weak |
| 2 | W 2 36 | 29 37 | 0 | 8.70 | K5 | 1-1-1 | Guiding bad again. Thick veil [illegible] at 2035 | L. weak |
| | | | | | | | Snowing at 2055 Trouble clearing dome | |

Date [illegible] 1951 Observer [illegible] Julian Day [illegible]

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18810 | HD 213793 | [illegible] | [illegible] | [illegible] | [illegible] | .008 | -11.0 | [illegible] | 1804 | [illegible] |
| | BD [illegible] | [illegible] | [illegible] | | | | | | | |
| 18811 | HD 1868 | [illegible] | [illegible] | " | " | " | -11.0 | 1920 | 2030 | [illegible] |
| 18812 | HD 3551 | [illegible] | [illegible] | " | " | " | -11.0 | 2010 | [illegible] | 1 |
| 18813 | HD 10097 | 1 33.7 | 04 37 | " | " | " | -11.0 | [illegible] | [illegible] | [illegible] |
| 18814 | " 52147 | 06 [illegible] | [illegible] | " | " | " | -11.0 | 00 11 | 01 27 | 3 |
| 18814 | AG 3682 | 06 55.3 | 26 22 | " | " | " | -11.1 | 01 31 | 03 01 | 4 |
| 18815 | HD. 73160 | 08 31.8 | 26 36 | " | " | " | -11.1 | 03 08 | 04 34 | 1 |
| 18816 | " 88008 | 10 03.7 | 25 02 | " | " | " | -11.1 | 04 39 | 06 05 | 2 |
| 18817 | " 95363 | 10 55.5 | 27 40 | " | " | " | -11.1 | 06 10 | 07 04 | 3 |
| | Focus Test | | | | 0 7 B | | | | | |

Dome Temp. 5

Focus 12.25

Dome Temp. −1°F

Transparency Conditions Clear, Cold

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | + 27 | <1 | 5? | F0 | 3 | Cloud cover, mostly ~ 78 in [illegible] | good |
| | | | | | F0 | | Set on [illegible] | |
| | G (48) | 20 [illegible] | <1 | 8.2 | G0 | 1-1-1 | Weak [illegible] | too weak |
| | 10 [illegible] | 05 46 | <1 | 9.2 | F5 | 1-1-1 | " | too weak |
| | W 24 4 | 04 52 | <1 | 9.2 | F0 | 1-1-1 | " | Too weak |
| | ~~G 63 E~~ | 29 18 | 0 | 8.54 | G5 | 1-1-1 | AC. 25. found plate broken in holder. | |
| | 1 30 W | 26 18 | 0 | 8.82 | G5 | 1-1-1 | " " | weak |
| | 1 27 W | 26 24 | 0 | 8.70 | K0 | 1-1-1 | " " Too cold for spectra to work satisfactorily. | Too weak |
| | 1 26 W | 24 46 | 0 | 8.72 | G5 | 1-1-1 | " " | Too weak |
| | 1 33 W | 27 23 | 0 | 7.93 | G0 | 1-1-1 | " " | Too weak |
| | | | | | | 4/3 | | Centre of focus last missing |

~~H~~ H. Cooled +4

| | HC | SC | NW | STW | BW |
|---|---|---|---|---|---|
| Dec. 17 | 27.5 s | +23.2 s | +4.0 s | −.9 m | +33 s |
| " 19 | +30 s | +23.6 s | — | — | +10.3 s |

Mon. Dec 17/18: Clouds at Sunset, filling in steadily Wm

Tues. Wed. Dec. 18/19. 00 30 Light snowing in spite [illegible]

[illegible] Light [illegible] with H.

Date Wed Dec 19-20/51 Observer Hd (HO) Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18817 F | Focus Test | | | | | | O.T B. −11°C | | | |
| 18818 | T Cet | 1 39.4 | −16 28 | I-12 | E103a0 | 008 | −10.9 | 18 28 | 18 56 | 1 |

Dome Temp. +6 F
Focus 15.307
Dome Temp.

Transparency Conditions

GL Dec 19 changed to 25" camera 12½" was { Focus 12.925 Filt 20.28 } 25 { Focus 15.307 Filt 23.18 }

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | G.M.T. Exp. and centre on plates | |
| | | | | | | 6/4 | Set 1 15.207 | |
| | | | | | | | " 4 15.407 | |
| | | | | | | | " 10 15.307, correct by chart OK. | |
| | | | | | | | Expend about 1715. Ho testing integrator on 3 Peg. | |
| 18 56 | Σ 1 16 | −16 10 | 0 | 4.65 | G8V | 3-3-3 | Haze several mags. * nearly gone at end | Too weak |

| | HE | SC | HTW | STW | SW |
|---|---|---|---|---|---|
| Dec. 2. | +32 s | +22 s | — | — | −5 s |

Where is WC strikes?
And watch 1 hour in error.

2 PH in dome loaded but not spotted. Need plates.

4 PH wild [illegible]

Fri Dec 21/22, 1951 — Solid Wm.

Sun Dec 23/24, 1951 — Solid until 22:30, then broken Wm.

Date Mon/Tue Dec 24/25/51 Observer R Julian Day 2,434,605

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P | Hour Angle End | De |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18719 | α Tau | 4h 30m 2 | +16° 19' | I-25 | 103a-o | .008 | -1 | 19h 45m | 19h 53m | 1 | | |
| 18720 | HR 1327 | 4h 11.2 | +64 55 | " | " | " | -50 | 21 16 | 22 36 | 2 | | |
| | Focus test | | | | | | | | | | | |

Dome Temp. +18°F

Focus 15.382

Dome Temp.

Transparency Conditions Cloudy at first, very dense. Opened at 8:30 PST, but delayed opening; dome shutters not working properly. Opened shutters manually, but ... Closed down 3 HOURS ... Poor!

| Ending Time P.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | +5° 24' | 3 | 2·24 | A5 III | 12 | 30, 60, 20 sec. Obviously [illegible] Date work; avail. 2.5 mag. | Poor work |
| 13 3 | 3h 15m | +65 03 | 3 | 5·76 | F5 III | +1 | Visual finder [illegible] For Delay & Setting, 20 ft level, 5 in b/f. Developed plate, 1½ hours. | Poor work |
| | | | | | | 10-7 | OTB no centre comp. | |

Date 1931 Dec 26/27 GMT Observer R Julian Day 2,434,007

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|
| 19821 | ε Cet | 01h 39m 4 | -11° 38' | I-25 | 103aO | .005 | -3.9 | 18h 45m | 18h [illegible] | |
| | Focus test | | | | | | | | | |
| 19822 | ε Cet | 01 39 | -11 38 | " | " | " | -3.9 | 19 31 | 19 38 | |
| 19823 | ε Cet | 02 14.1 | +3 20 | " | " | " | -3.5 | 20 [illegible] | [illegible] | |
| | Focus test | | | | | | | | | |
| 19824 | ε Cet | [illegible] | [illegible] | " | " | " | -3.5 | 21 [illegible] | [illegible] | |
| 19825 | δ Eri | 03 38.5 | -10 06 | " | " | " | -3.5 | 21 53 | [illegible] | |
| 19826 | κ Tau | 04 23.0 | +22 19 | " | " | " | -3.5 | 22 29 | [illegible] | |
| 19827 | ε Cet | 01 [illegible] | +11 50 | " | " | " | -3.5 | 23 10 | [illegible] | |
| | Focus test | | | | | | | | | |

Some Temp.
Corrs.
Some Temp.

ome Temp. 22.5°
ocus 15.309
ome Temp.

Transparency Conditions Wonderful Night, Almost perfect, but improving later. Humid.
Latter part of night perfect

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 0 | 4.6 | G5 II | 12 | Used 1.0 mag. Used 0.1 & 28 [illegible] | |
| | | | | | 10-7 | OTB Used 1.0 mag. Used 0.1 & 28 [illegible] | |
| 10 18 | -16 10 | 0 | 4.5 | G8 I | 8-8-8 | | |
| 5 08 | +03 13 | 0 | 5.74 | G5 I | 8-8-[illegible] | | |
| | | | | | 10-4 | OTB. | |
| 20 20 | -09 37 | 0 | 4.81 | K3 V | 8-8-8 | | |
| 10 38 | -07 56 | 0 | 4.72 | K0 IV | 8-9-8 | | |
| [illegible] 44 | +16 25 | 0 | 2.24 | A5 III | 24 | 75, 59 3 Used. | |
| E007) | +01 51 | 0 | 6.01 | K2 II | 8-8 | Getting a [illegible] Used 1.0 | |
| | | | | | 10-4 | OTB. | |
| | Comp to [illegible] | | | | | 30H Used [illegible] | |

| | HC | SC | HTW | STW | SW |
|---|---|---|---|---|---|
| Dec. 27 | +40.5 s | +28.7 s | — | — | -5 s |
| 28 | +39 s | +16.6 s | -26.0 s | +.3 m | -19 s |

Date 1951 Dec 30/31 Sunday Observer R – Hr Julian Day 2,434,011

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|
| 18628 | π Per | 2h 43.2m | +55° 29' | I-25 | E103a0 | 0.06 | +2°.1 | 19h 46m | 20h 05m | |
| 18629 | μ Cas | 01 01.6 | +54 26 | " | " | " | +2.2 | 20 17 | 21 13 | |
| 18630 | HR 327 | 04 11.2 | +62 54 | " | " | " | +2.3 | 21 24 | 22 13 | |
| 18631 | l Lyn | 06 57.0 | +58 16 | " | " | " | +2.1 | 22 21 | 23 20 | |
| 18632 | c Lyn | 08 37.9 | +25 14 | " | " | " | +2.3 | 23 55 | 24 05 | |
| 18633 | DE 7-a | 9h 49.9 | +24 04 | " | " | " | +2.3 | 24 14 | 24 44 | |
| 18634 | MWC 139 | 06 17.7 | +15 49 | " | " | " | +2.3 | 24 51 | 25 [illegible] | |
| | | | | | | | | | 25 32 | |
| | | 5 Exp | 1 set | | O. T. 19 | | | | | |

Dome Temp. +32°F
Focus 15.477
Dome Temp.

Transparency Conditions Cloudy at first resulting in delayed opening. MTW stopped, so did not use. Rest 1.7 mag. Comp @ 15-15-15

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 0h 2m | +55° 41' | 0-1 | 4.93 | K3 | 15 | Lost star. | Poor |
| | | +54 10 | 0-1 | 4.04 | ? | 5-15 | | Poor star |
| | | +62 01 | 1 | 5.96 | G5 III | 15 | | Poor Tarr |
| | | +23 15 | 0 | 5.19 | | 15-15-15 | | Poor star |
| | | +25 11 | 0-1 | 3.? | G0 b | 15 | | Poor |
| | | +24 05 | 0-1 | ? | K0 III | 15-15 | | Poor mark |
| | 0 32 W | +15 10 | 0-1 | 7.0 | F3e | 15-15 | Lost star. | Poor |
| | | | | | | 49/28 | 0319 [illegible] 0322 [illegible] 0345 Weather thin says not much [illegible] | |
| | | | | | | | 4 P.H. Loaded. 4 Pairs D. H. on M. Heat off clock. | |
| | | | | | | | Jan 21/52 ME +46.8 s SC +22.8 s MTW -7.2 s STW 1.3 s Corr +44 s | |

353

Date Jan 2 1952 Observer L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P |
|---|---|---|---|---|---|---|---|---|---|---|
| 18834 A | Sky | | | T-25 | E 103a-O | | -.8° | 3.10 | | 1 |
| B | " | | | " | " | | " | to | | 2 |
| C | " | | | " | Cramer Hi-speed | | " | 3.30 | | 1 |

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Sky completely overcast

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Strings 0 2 4 6 8 10 Developed in D19 | |
| | | | | | | | " " " " " " " in Morgans' | |
| | | | | | | | " " " " " " " in D19 | |
| | | | | | | | Exposures 2 4 6 8 10 12 secs. | |
| | | | | | | | 2 Plates loaded. | |
| | | | | | | | Note on these plates. | |
| | | | | | | | B has better grain and contrast than A. But B is less dense than A and is in all respects inferior to C. In fact, the improvement in grain and clearness of C may make it preferable to A in spite of the loss of density. | |
| | | | | | | | J Z H. | |

Date Jan 3/4 1952 Observer Ha - Hr Julian Day 2 434 015

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HD 5512 | 1 01.6 | +54 26 | 1-25 | | | -2.0 | 16 16 | 16 40 | 4 | | |
| 2 | HD 219134 | 23 08.5 | +56 37 | " | " | " | -2.0 | 18 55 | 19 41 | 2 | | |
| 3 | τ Cet | 1 39.4 | -16 33 | " | " | " | -2.0 | 19 55 | 20 31 | 3 | | |
| 4 | HR 1327 | 04 10.2 | +46 54 | " | " | " | -2.0 | 20 10 | 20 35 | 1 | | |
| 5 | 56 Ori | 05 47.3 | +01 50 | " | " | " | -2.0 | 20 42 | 21 [illegible] | 4 | | |
| 6 | [illegible] | [illegible] | [illegible] | " | " | " | -2.0 | 21 17 | 21 [illegible] | 3 | | |
| 7 | HD 44537 | 06 17.7 | +15 01 | " | " | " | -2.0 | 21 47 | 22 27 | 1 | | |
| 8 | [illegible] | 06 [illegible] | -24 04 | " | " | " | -2.1 | 23 03 | [illegible] | 4 | | |
| 9 | HD [illegible] | [illegible] | [illegible] | " | " | " | -2.1 | 0 35 | [illegible] | 2 | | |
| 10 | [illegible] | [illegible] | [illegible] | " | " | " | -2.2 | 1 31 | [illegible] | 1 | | |

Dome Temp.... 23°F

Focus..... 15.422

Dome Temp.... 22°F

Transparency Conditions Opening delayed by [illegible] waited for a large rift!

| | HC | SC | HTW | STW | SW |
|---|---|---|---|---|---|
| Jan 4/61 | +49.2$^s$ | +22.6$^s$ | −25.6$^s$ | +.1$^m$ | +34$^s$ |

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| V 0 08 | -54 +0 | 0 | 6.04 | ? | 1-1-1 | | flattering |
| — | +56 53 | 0 | 6.72 | K3 V | 1-1-2 | | fine |
| 0 53 | −16 12 | 0 | 4.05 | G8 I | 2-2 | | weak |
| 1 13 | +65 01 | 0 | 5.96 | G5 III | 1-1-1 | | good |
| 2 10 | 01 51 | 0 | 6.01 | K2 II | 1-1-1 | | weak |
| 2 03 | -13 15 | 0 | 5.17 | Comp. | 1-1-1 | | fine |
| E 0 20 | +15 01 | 0 | 7.6 | B3e | 1-1-1 | Be | fine |
| W | −24 06 | 0 | 5? | K3 Iab | 1-1-1 | | weak |
| W | +25 57 | 01 | 6.86 | K5 | 1-1-1 | | good |
| — | 27 37 | 011 | 7.72 | K0 | 1- | | Too weak |
| | | | | | 4/3 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

**Date** Jan 6/7 1952 **Observer** [illegible] **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18845 | A[illegible] | 22 [illegible] | 25 [illegible] | 12" | F103a O | [illegible] | -1.4 | 17 44 | [illegible] | 4 |
| [illegible] | HD 114 | 00 05.6 | [illegible] | " | " | " | -1.2 | [illegible] | [illegible] | 1 |
| [illegible] | [illegible] 36592 | 05 27.3 | -10 01 | " | " | " | -1.3 | 21 42 | 23[illegible] | [illegible] |
| 18848 | MWC 134 | 04 17 | 15 07 | " | " | " | -1.3 | [illegible] | 2341 | [illegible] |
| | M[illegible] | 21 41.1 | 21 49 | " | " | " | | | | |
| 18849 | " 56761 | 07 13.3 | 27 00 | " | " | " | -1.4 | 01 05 | 02 45 | 4 |
| 18850 | " 85535 | 03 34.8 | 26 28 | " | " | " | -1.4 | 02 30 | [illegible] 50 | 1 |
| 18851 | " 96393 | 11 01.6 | 26 17 | " | " | " | -1.4 | 04 25 | | 2 |
| | Rich Field | | | | C T 12 | | | | | |

Thurs Jan 10-11 Opened 1815 Cent dipper (or flatting) power
covered everything in 10 mins. Cloud. High wind,
Clear sky. -1d. mirror got wet

Dome Temp. 26

Focus 12.925

Dome Temp. +12

Transparency Conditions

Jan 4 1952

L. changed to 12½" Camera { 25" was Focus 15.422 Filt 23.18 ; 12½ is Focus 12.925 Filt 20.28

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 04 7W | 25 26 | 0 | 9.0 | 0 | 1-1-1 | 37695 AG | Lweak |
| 04 0W | 24 11 | 0 | 8.75 | 60 | 1-1-1 | 37850 AG | fine |
| [illegible] | - 10 [illegible] | 0 | 8.5 | A0 | 1-1-1 | Hamilton | fine |
| 00 12E | + 15 [illegible] | [illegible] | [illegible] | [illegible] | 1-1-1 | B2 | fine |
| [illegible] | [illegible] | [illegible] | 9.0 | 60 | [illegible] | AG 100 80/min with 8 Home fine | |
| 2 16W | 26 55 | 0 | 9.66 | K0 | 1-1-1 | AG 25 401/min without. 1/4 hour adjusted = 12.5 in | strong |
| 1 30W | 26 17 | 0 | 8.72 | K0 | 1-1-1 | " " about 10 mins of apparent clear | fine |
| | 26 00 | 0 | 8.79 | G5 | 1- | " " | 2nd strong |
| | | | | | 1 1 3 | clouds from west, light wind starting | |
| | | | | | | closed up. | |
| | | | | | | 3 PH = Loaded +8 | |

| | HC | SC | HTW | STW | SCW |
|---|---|---|---|---|---|
| Jan 16 | +5.0s | +14.4s | -38.0s | -.4m | -4s |
| 18 | +7.3s | +13.0s | -13.2s | +.1m | -22s |

Hour Adjustment

| | HC | SC | HTW | STW | SCW |
|---|---|---|---|---|---|
| Jan 8 | -4s | +19.0s | -10.5s | 0.0m | +7.0s |
| " 9 | -4.5s | +18.8s | +5.5s | +.5m | +1s |
| " 11 | -1.3s | +18.4s | -27.3s | -.2m | -3s |
| " 14 | +2.2s | +15.2s | 1.2s | +.2m | +12s |

Date Wed 1952 Observer Ba - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18851 | MWC 139 | 5 17.7 | 15 09' | 2 10" | 2 10 Ila-O | W | -5.0 | 2:44 | 23,44 | 5 | 0 11 50 | 15 |
| 18852 | HD 51 | 06 54.0 | 27 02 | " | " | " | | 23 49 | 01 01 | 3 | 0 31 | 15 |
| | Focus Test | | | | | 0 T 12 | | | | | | |

Dome Temp. 6

Focus 12.925

Dome Temp. +2°F

Fri Tonight

Jan. 21
23

Transparency Conditions Clouds, Clouds all Around 360
Rain last • No Comp. L.L.

| | Mc | Sc | Mcw | Scw | Sw |
|---|---|---|---|---|---|
| | +11.5 s | +12.8 s | −27.5 s | .0 m | −16 s |
| | +13.0 s | +10.8 s | −4.2 s | +.6 m | −3.4 s |

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 0115W | 15 [illegible] | 4 | 7.7 | B3e | 1-1-1 | 44295 35W 4'41"2 Pe Mag | weak & grainy |
| | 1 55W | 2 58 | C | E1° | <0 | 1-1-1 | Pe Pos Stage, star flickering slightly during exposure | |
| | | | | | | 4/3 | 1 P.H bonded + 5.0 | |
| | | | | | | | N on M | |
| | | | | | | | Called it off at 3.00 AM. | |

361

2

Date Thurs Jan 24-25, 195X Observer Hd - [illegible] Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.J. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1885 A | HD 123052 ~~HDC 23~~ | 01 55.6 | 59 12 | I-12 | E103aO | 008 | -9.1 | counter# 64 20 13 | counter 77 20 47 | 4 | |
| B | HD 123052 MWC 23 | " | " | " | " | " | -9.1 | counter 79 20 58 | counter 94 21 38 | | |
| 18855 | HD 26162 | 04 033 | 19 21 | " | Hispad | " | -9.0 | counter 98 21 48 | counter 17 [illegible] | 1 | |
| 18856 | HD 44637 MWC 137 | 06 17.7 | 15 09 | " | E103aO | " | -9.2 | 22 16 | 22 18 | 2 | |
| 18857 | HD 56513 | 07 12.2 | 27 28 | " | Hispad | " | -9.2 | 23 27 | [illegible] 23 | 3 | |
| 18858 | HD 76534 | 08 [illegible] | 25 37 | " | E103aO | " | -9.2 | [illegible] 37 | 0358 | 4 | |
| | [illegible] | [illegible] | [illegible] | | [illegible] | | | | | | |

Dome Temp. +11 F
Focus 12.927
Dome Temp. +11.0 F

Htomachroscope dark count
1937 42
1956 57
2011 63

Transparency Conditions Poor

Everything going wrong. Clouds. Watch 2h slow. Clamp not working.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W 3 45 | 59 18 | 1 | 8.0 | B3e | 1-1- | In a 34 min period before This exposure Htomachroscope count (dark) = 21 (probably 7m Wrong star) | |
| | W 3 34 | 59 29 | 2-1 | 8.0 | B3e | 1-1-1 | ← set 5 ← set 9 counter stopped & reset from about 21 10 To 21 30. adjusted relay but (but not watched) | good |
| | W 1 49 | 19 29 | 1 | 6.45 | K1 | 1-1-1 | Std Vel. Hocope fuzzy a bit without counting | 2 weak |
| | W 52m | 15 07 | 1 | 7.6 | B3e | 1-1-1 | Be Bin *Sioms ft. Power Counter is at 2.48 | 2 weak |
| | 2 10 W | 7 38 | 1? | 8.26 | G5 | 1-1-1 | AG prog Haze at Times | weak |
| | 0 2 W | 25 25.5 | 0 | 9.38 | K2 | 1-1-1 | AG 25 28 43 Very Hazy 0102 Star very faint | too weak |
| | | | | | | H/3 | 2 P.H. Pairs 4 Pl in D. H in M. +113 Haze 0123 Haze Ha 26 & Cl 0 0 Clouds completely cleared Haze Clouds | |

| | ME | SC | MW | STW | GSW |
|---|---|---|---|---|---|
| Jan 25 | +16 s | +9.1 s | -13.0 | -.7 s | +7 s |
| 29 | +14.8 s | +7.1 s | +32.8 | +.2 m | +9 s |

Should be added that we can't tell if Hocope is going wrong because of uncertainty of relay - which cannot be adequately adjusted at present.

Date Mar/Apr 28-29/52 Observer Hr — L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18859 | HD 2084 | 00 20 | +29 33 | I-12 | E10 | .005 | -6.7 | 15 55 | 20 00 | 1 |
| 18860 | AG 766 | 01 40.9 | +27 53 | | | | -7.0 | 2 13 | | 2 |
| 18861 | MWC 189 | 07 52 m | -01 30 | | | | -7.1 | 05 | 08 | 3 |
| 18862 | H.D. 78194 | 09 01.8 | 28 23 | | | | -7.1 | 09 10 | 11 20 | 4 |
| 18863 | 99594 | 11 20.4 | 26 55 | | | | -7.2 | 11 21 | | 1 |
| 18864 | " 114762 | 13 37.5 | 18 02 | | | | -7.2 | 13 47 | 14 | 2 |
| | Sirius Jan | | | | | | | | | |

Dome Temp. +10°F

Focus 12.927

Dome Temp. −10°F

Transparency Conditions Clouds [illegible]

Opening dome at 0 hrs, but on HD 21134 which was already over 11° W of W. Very Muddy

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 33 4 2W | 3 9 50 | 0/1 | 8.8 | G-5 | 1-1-1 | Seeing VERY P... A.65, 8m; | weak |
| 3 4 5W | 3 9 12 | 0 1 | 8.82 | G5 | 1-2 | A5 ... 1945 W of Th star | Lweak |
| 1 05W* | −0 1 39 | 0/1 | 7.9 | B5 ve | 1+1 | B+ F8 ... as faint weak as possible | weak |
| 2 1 5W | 23 12 | 0 | 8.31 | K0 | 1-1-1 | AC 25 | Lweak |
| 2 1 0W | 26 13 | 0 | 8.35 | K2 | 1-1-1 | " R.A. ... | weak |
| 1 40W | 17 46 | 0 | 7.2 | F7 | 1-1-1 | Hd Vel. R.A. ... | V fine |
| | | | | | 1+2 | R.A. will not | |
| | | | | | | 1 RR = Bright B ... Hyd M | |

Date Tues Jan 22/30 1952 Observer Ha-Hr Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18365 | HD 2543 | 0 22.2 | +30 21 | I-12 | F 03-3 | .012 .09 | -12.4 | 18 [illegible]* | 21 19 | 1 |
| 18366 | MWC 139 HD 4037 | 6 17.7 | +15 09 | " | " | " | -12.5 | 21 35 | 22 59 | 2 |
| 18367 | MWC 189 HD 65176 | 7 52.4 | -01 20 | " | " | " | -13.5 | 22 50 | [illegible] | 3 |
| 18368 | HD 29312 | 09 03.3 | [illegible]43 | " | " | " | -13.7 | 09 10 | 11 30 | 4 |
| 18369 | " 103095 | 11 47.2 | 38 26 | " | " | " | +12.7 | 11 40 | [illegible] | 1 |
| 18370 | " 109230 | 12 28.5 | 25 00 | " | " | " | +12.7 | 12 3[illegible] | ~~12 44~~ [illegible] | 2 |
| | Y Geminorum | Plate | | O-T-B | | | | | | |

Dome Temp. +8° F

Transparency Conditions clear

Focus 12927

Dome Temp. +3.5° F Must be Stuck

Shutter stopped by adjusting screw and blank card on front dec setting.

| Ending Time L.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | V 5 12 | +30 37 | 2 and wisps | 5.7 | G5 | 1-1-1 | A G25 | Equivalent to 5 S.T. and that when watch read 18h 59m S.T., sidereal time 13h 13m 30s |
| | V 0 34 | +15 09 | 0 | 7.6 | B3e | 1-1-1 | Be fine | |
| | 0 1 | +01 30 | 0 | 9 | B5ne | 1-1-1 | | |
| | 0 3-19 | [illegible] | 3 | 8.2 | K0 | 1-1-1 | A G K 5 | |
| | 0 31 | 3203 | 0 | 7.4 | G5 | 1-1-1 | Stellwagen | |
| | [illegible] | +11 43 | 0 | 3.70 | M0 | 1-1-1 | A G 2 F | |
| | | | | | | 4/3 | | |
| | | | | | | | 2 P.H. | |
| | | | | | | | 4 P.H. | |

| | | | | |
|---|---|---|---|---|
| Feb. 8 | +37 11 +33 s | +1 2 s +24 s | +12 s +24 s |
| Jan 30 | +23 s | +7.1 s | +5.7 s |
| Feb 1 | +25 s | +1 s | -7 s |
| Feb 4 | +29 s | +3.4 s | +6.4 s |
| 6 | +32 s | +4 s | -14 s |

**Date** Tues Feb 12/13 1952 **Observer** Ha - Hr **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End | De |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18871 | MWC 13 HD 9105 | 01 24.6 | 62 51 | I-12 | E 103a-0 | 2nd .108 | -4.4°C | 18 00 | 18 48 | 3 | | |
| 18872 | HD 173-6 | 02 42.3 | 29 56 | " | " | " | -4.6 | 19 20 | 20 50 | 4 | | |
| 18873 | MWC 139 HD 44637 | 06 17.7 | +15 09 | " | " | " | -4.9 | 21 01 | 21 45 | | | |
| 18874 | MWC 189 HD 65176 | 07 52.4 | -01 20 | " | " | " | -4.8 | 21 57 | 22 57 | 2 | | |
| 18875 | HD 56224 | 07 11.1 | +26 33 | " | " | " | -4.9 | 23 08 | | 3 | | |
| 18876 | " 78518 | 09 08.3 | 25 43 | " | " | | -5.0 | 00 37 | 11 48 | 4 | | |
| 18877 | " 114762 | 13 07.5 | 12 03 | " | " | | -5.0 | 12 16 | 13 02 | | | |
| 18878 | " 115103 | 1309.9 | 7955 | " | " | " | -5.0 | 13 17 | 14 18 | | | |
| | Focus | Focus | | I.T.S. | | | | | | | | |

Dome Temp. +16°F
Focus 12.927
Dome Temp. +2°F

Transparency Conditions Hazy low in SW.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W 2 30 | 63 05 | 0 | 7.22 | cB5e | 1-1-1 | Be binary * | fair |
| | W 3 15 | 30 08 | 0 | 8.65 | B5 | 1-1-1 | A325 | fair |
| | W 0 35 | 15 08 | 0 | 7.6 | B3e | 1-1-1 | Be binary | good |
| | W 0 13 | -01 29 | 0 | 7.9 | B5ne | 1-1-1 | Be binary | good |
| | E W | 56 27 | 0 | 8.51 | K0 | 1-1-1 | nG25 | fair |
| | | 25 31 | 0 | 8.2 | K0 | 1-1-1 | A=25 | fair |
| | | 17 45.5 | 0 | 8.2 | F7 | 1-1-1 | STD. Vel. | good |
| | | 32.5 | 0 | 7.1 | G0 | 1-1-1 | | |
| | | | | | | 4/4 | | |

* 17h 20m EST = 5h 30m GMT.
Dec. Setting button used only for Dec. motion.
Dec. Guide Motor
See note with Dec.

2 PH. Lead P.
1 PH. — D.
P. — M.

| | HC | SW | SC |
|---|---|---|---|
| Feb. 14 | +40s | -6s | -1s |

Date Wed Dec 17/14 Observer Ba - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P |
|---|---|---|---|---|---|---|---|---|---|---|
| 18879 | HD 15326 | 02 22.9 | 29 14 | | | | -10.0 | 1835 | 1940 | |
| 18880 | A 2799 | 03 44.3 | ~~25~~ 17 | | | | -9.9 | 2015 | 2025 | |
| 18881 | HD 21320 | 03 26.0 | 29 12 | | | | -9.9 | 2057 | 2209 | |
| 18882 | HD 59484 | 07 26.0 | 37 21 | | | | -9.6 | 2330 | 00 40 | |
| 18883 | " 89361 | 10 13.6 | 24 52 | | | | -10.5 | 0046 | 0205 | |
| 18884 | " 99947 | 11 24.8 | 25 27 | | | | -10.5 | 0214 | | |
| | Focus Test | | | | | | | | | |

Dome Temp. 8

Focus 12.727

Dome Temp. 0°C

Transparency Conditions Good

| Ending Time EST | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 2 27 W | | 0- | 8 | G1 | 1-1-1 | AG 25 Cloud trouble | poor |
| | 2 50 W | | 0 | 5.9 | A3 | 3 | Visual Binary. Cram plate spectra in plate holder. | no comp |
| | | 29 22 | 0 | 7.8 | K0 | 1-1-1 | AG 25 Dome closed | poor |
| | 2 26 W | 24 13 | 0 | 8.7 | K0 | 1-1-1 | AG 25 Dome closed | poor |
| | 1 03 W | 24 37 | 0 | 8.47 | K2 | 1-1-1 | " Wind increasing | poor |
| | 2 1 W | 23 09 | 0 | 8.72 | K0 | 1-1-1 | " wind freezing? | poor |
| | | | | | | 4/4 | 2 Plates Exposed | |

0690

E357

Date Thurs Feb 14-15 1952 Observer Ed - Hr Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18885 | HD 12302 MWC 23 | 01 55.6 | 59 12 | 1-12 | Hoyland | 0.08 | -10.4 | 18 54 | 19 34 | 1 | +2.52 |
| 18886 | HD 23141 | 03 37.7 | 26 04 | " | E103aO | " | -10.4 | 19 43 | 20 43 | 3 | +2.22 |
| 18887 | HD 44637 MW 137 | 06 17.7 | 15 09 | " | Hoyland | " | -10.4 | 20 54 | 21 44 | 2 | +1.87 |
| 18888 | HD 52071 | 06 54.7 | 27 18 | " | E103aO | " | -10.4 | 21 55 | 22 35 | 4 | +1.55 |
| 18889 | HD 65176 MW 189 | 07 52.4 | -1 20 | " | Hoyland | " | -10.2 | 23 48 | 23 [illegible] | 1 | +1.19 |
| 18890 | HD 67544 | 08 03.4 | 25 05 | " | " | " | -10.5 | 23 45 | [illegible] | 3 | [illegible] |
| 18891 | " 83340 | 09 32.6 | 28 28 | " | E103aO | " | -10.1 | Sid. Time 09 58 | [illegible] | [illegible] | [illegible] |
| 18892 | " 95978 | 10 59.2 | 29 [illegible] | " | " | " | [illegible] | 11 01 | [illegible] | [illegible] | [illegible] |
| 18893 | " 114762 | 13 07.5 | 12 02 | " | " | " | -10.1 | 13 16 | [illegible] | [illegible] | [illegible] |
| 18894 | " 121319 | 13 49.7 | 28 50 | " | " | " | -10.1 | 17 04 | 15 30 | 2 | [illegible] |
| | focus | test | | O.T.B | | | | | | | |

Dome Temp. 131°
Focus 12.927
Dome Temp. +79°

at 0000 EST
Sid Time = 9 19

Transparency Conditions Good

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W 2 52 | 57 27 | 1 | 8.0 | B3e | 1-1-1 | Dec setting motion not working (motor burned out) Be Bin | fine |
| | W 2 20 | 26 13 | 1 | 8.49 | K0 | 1-1-1 | AG | fine |
| | W 0 41 | 15 17 | 1 | 7.6 | B3e | 1-1-1 | Be Bin | fine |
| | W 0 55 | 27 15 | 1-2 | 8.19 | K2 | 1-1-1 | AG | fine |
| | W 1 01 | -1 30 | 1 | 7.9 | B(5)ne | 1-1-1 | Be Bin. Much time lost on changes because of dec setting. | good |
| | 13 W | 1 58 | 1 | 7.98 | G5 | 1-1-1 | AG | fine (guiding) |
| | 1 14 W | 28 13.5 | 1-0 | 7.95 | G0 | 1-1-1 | AG 1111 0750 Dec | fine |
| | 0 03 W | 0 7 41 | 0 | F8 | K0 | 1-1-1 | AG | fine |
| | 1 10 W | 17 16 | 0 | S2 | F7 | 1-1 | Std. Vel. 1316 Dec N.T. in Body | fine |
| | 3 14 W | 0 23 33 | 0 | 8.19 | K0 | 1-1-1 | AG | fine |
| | | | | | | 4/3.5 | 4 PH. Included. BP in D. H in M. | |

51690

1331
1357

Date Fri 24 1916 Observer [illegible] Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15895 | HD 9914 | 0 4 19 | -26 49 | | | | | | | | |

**Dome Temp.** 18

**Focus** 12.927

**Dome Temp.**

**Transparency Conditions** Good. [illegible] early [illegible].

Heavy cloud [illegible]
[illegible]

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Date Sun Feb 17-18 1952 Observer Hd - Hz Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18895 | HD85615 | 0947.9 | 2607 | I-12" | E. a O | | -1.7 | SID TIME 1004 | 1130 | 1 | |
| | | | | | O. T. 3 | | | | | | |

Dome Temp. 26 F
Focus 12.927
Dome Temp. -22° F

Transparency Conditions Good

Clearing suddenly 2B.15.

| Ending Time E.S.T. | P.E. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|---|
| | | D138W | 2555 | O | 8.07 | $K_2$ | 1-1-1 4/3.5 | AC- | |

1025 Haze overhead & in S. Considerable light cloud coming from N, NW.
1055 Sky clear. Wind light.
1115 Weather says No Clouds [illegible] Height of Tree.
1127 Foggy spot from N.W. Closing up.

Dec. Motion O.K.

3 P.H. [illegible]
8 Pl. in P.
H. in M.

| | HC | SC | SW |
|---|---|---|---|
| Feb. 18 | +44$^s$ | −3$^s$ | +19$^s$ |

377

Date Mon Feb 18/19, 1952 Observer Wm-L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time ~~E.S.T.~~ SIDEREAL | Ending Time ~~E.S.T.~~ SIDEREAL | P. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SLT | | | | | |
| 18896 | HD 14490 | 02 15.3 | +29 28 | I-12½ | E 103a-O | 008 | -0.4 | 04 27 | 06 07 | 2 | 11h 41 |
| 18897 | HD 45824 | 06 24.6 | +26 43 | " | " | " | -0.4 | 07 10 | 08 50 | 3 | 11h 43 |
| 18898 | HD 49141 | 06 41.9 | +26 49 | " | " | " | -0.5 | 08 59 | 10 39 | 4 | 11h 41 |
| 18899 | " 96393 | 11 01.6 | 26 17 | " | " | " | -0.6 | 11 05 | 12 49 | 1 | 14h 25 |
| 18900 | " 113094 | 12 56.2 | 29 51 | " | " | " | -0.6 | 12 59 | 14 34 | 2 | 14h 25 |
| 18901 | " 132524 | 14 37.5 | 25 27 | " | " | " | -0.6 | 14 38 | 15 40 | 3 | 14h 25 |
| | Sunset 5h 6m | | | | | OTG | | | | | |

Dome Temp. 25°F

Focus 12.926

Dome Temp. +17°F

Transparency Conditions Some cloud & far haze in NW

EST = GT + 2h05½m (for reference only)

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 03W19 | +29° 43′ | 0 | 8.70 | GO | 2-1-1 | AG 25 Long 1st comp used to unfamiliarity with new arc switch | good |
| 02W23 | +26 42 | 0 | 8.72 | KO | 1-1-1 | " One hour lost trying to get the tel. in focus. Suspected vibration in RA. Check. | fine |
| 04 14W | 26 +7 | 0 | 9.0 | GO | 1-1-1 | " | [illegible] |
| 1 45W | 26 00 | 0 | 3.79 | G5 | 1-1-1 | " | fine |
| 1 3+W | 24 34 | 0 | 8.58 | KO | 1-1-1 | " | fine |
| 0 +3W | 23 14 | 0 | 3.9 | G5 | 1-1-1 | " | fine |
| | | | | | 4/4 | I.P.F. loaded + 4 centers | Tu red |
| | | | | | | Tues Feb 19 changed focus to 12.910 | |

379

Date Tues Feb 19/20 1952 Observer Ha - Hr Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 18902 | HD 17396 | 02 42.3 | +27 56 | 7-12½ | E103a-O | set 1.08 | -4.3 | 04 04 | 05 34 | 4 |
| 18903 | HD 44637 NWC 139 | 06 17.7 | +15 09 | " | " | " | -4.4 | 05 40 | 06 30 | 1 |
| 18904 | HD 53275 | 07 22.5 | +27 45 | " | " | " | -4.4 | 06 35 | 07 29 | 2 |
| 18905 | HD 57947 | 07 15M | +21 21 | " | " | " | | 07 33 | | 3 |
| | for Tom | | | | | | | | | |
| 18906 | HD 74697 | 08 40.2 | 07 57 | " | " | " | -4.7 | 08 34 | 09 30 | 4 |
| | for Hr | | | | | | | | | |
| | | | | | 37-2 | | | | | |

Dome Temp. +19° F
Focus 12,910
Dome Temp. 13

Transparency Conditions Clouds near horizon.

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 2 49 | 30 09 | 0-1 | 8.65 | G5 | 1-1-1 | AG 25 | f |
| 0 10 | 15 07 | 0 | 7.6 | B3e | 1-1-1 | Be binary | f-0 |
| 0 03 | 37 40 | 0 | 7.69 | K0 | 1-1-1 | AG 25 | f |
| | 26 15 | 0 | 8.23 | G0 | 1-2 | AG 25 | too faint |
| | | | | | 4/3 | | |
| | 27 40 | 0 | 7.79 | K0 | 1-1-1 | AG 25 | v-f |
| | | | | | 4/3 | | |
| | | | | | | 4 Pl binary | |
| | | | | | | H-R Pl | what is this? |

| | HC | SC | HW |
|---|---|---|---|
| Feb. 20 | +47 s | -3 s | +5.3 s |
| 22 | +49 s | -8 s | -20 s |
| 25 | +22 s | -8 s | +3 s |

Date Mon., Feb 25/26, 1912 Observer Wm - L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SLIT | | | | | |
| LB907 | HD 26372 | 01 05.1 | +26 15 | 1 N1 | F1134-2 | 005 | +0.3 | 19 52 | 21 32 | 1 | |
| 1390E | HD 67 709 | 08 04.2 | +27 23 | " | " | " | +0.3 | 22 20 | 00 00 | 2 | |
| 13909 | " 88553 | 10 07.5 | 27 55 | " | " | " | +0.3 | 00 04 | 01 44 | 3 | |
| 13910 | " 104590 | 11 37.6 | 25 00 | " | " | " | +0.3 | 01 50 | 03 34 | 4 | |

**Dome Temp.** +25°F

**Focus** 12.9+0

**Dome Temp.**

**Transparency Conditions** Good

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 3ʷ 47 | +26 23' | 0 | 8.93 | G0 | 1-1-1 | AG 25 comp. weak | too weak |
| 1 55 W | +27 15 | 0 | 8.56 | K0 | 1-1-1 | " | l wk |
| 1 57 W | 27 40 | 0 | 8.70 | G5 | 1-1-1 | " | good |
| 1 56 W | [illegible] 42 | 0 | 8.75 | K0 | 1-1-1 | | |

| | MC | SC | SW |
|---|---|---|---|
| Feb. 27 | +25ˢ | −3ˢ (~~−12~~) | −12.8ˢ |

Date Wed Feb 7/28 52 Observer P. - H. - Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. |
|---|---|---|---|---|---|---|---|---|---|---|
| 15911 | HVC 7 3 | 01 55.6 | 43 11 | 10" | G 46 | .010 | +1.2 | 1047 | 2037 | 1 |
| 15912 | Anon 2799 | 3 49.3 | 25 12 | 12" | " | " | +0.4 | 1519 | 2029 | 2 |
| 15913 | " | 4 26.8 | 10 36 | " | " | " | 0.0 | 2039 | 2101 | 3 |
| 15914 | NGC 4814 | 12 48.4 | 25 49 | " | " | " | 0.0 | 2316 | sid. time 11 50 | 4 |
| 15915 | HD 97416 | 11 07.9 | 27 43 | " | " | " | -0.2 | 11 11 | 12 41 | 3 |
| 15916 | AE 63 49 | 12 43.4 | 0 41 | " | " | " | -0.1 | 10 46 | 15 18 | 4 |
| 15916-F | Focus | Test | | | O.T.G. | | | | | 1 |

Dome Temp. 12

Focus 12.910

Dome Temp.

Transparency Conditions Good-1

384

2354 ST - 1805 ST

| Ending Time E.S.T. P.M. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 41 W | | O | 8.2 | Ca2 | 1-1-1 | Be | |
| | 2 | | C- | 8.4 | K2 | 3 | | |
| | | | C+ | 8.7 | G0 | 1-1-1 | | |
| | | | | 9.0 | G5 | 1-1-1 | P.H. 3 A.G. | |
| | 130 | 27 26.5 | O+ | 8.63 | K2 | 1-1-1 | | |
| | | 25 34 | O | 8.99 | K2 | 1-1-1 | | |
| | | | | | | 4/3 | 1540 Very Fine Precipitation Following Sq. Clouds up SK, Mostly Clear Clouds + Haze | O.K. |
| | | | | | | | 2 P.H. Lost +4 H. M. | |

385

Date Thurs Feb 28-29/52 Observer — Hr Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SID. TIME | SID. TIME | |
| 18917 | HD95188 | 10 54.1 | 25 50 | I-12½ | CrHiS | .009 | +0.2 | 10 58 | 12 40 | 2 |
| 18918 | " 11184 | 10 47.0 | 26 13 | " | " | " | 0.0 | 12 47 | 14 10 | 1 |
| | Same | Same | | | 9.T.B. | | | | | |

Dome Temp. +26° F

Transparency Conditions Good

Focus 12.911

Dome Temp. +22° F

Seared by Bat Between Shutters * Nearly Fell off Catwalk.

| Ending Time EST. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 0 1/2 W | 25 31 | 0 | 8.75 | G5 | 1-1-1 | A.G. 11:20 First Exposure. Mostly overcast 12:— Gradually Cloudy | v good |
| 0 | 0 1 W | 25 56 | 0 | 8.91 | K5 | 1-1-1 | A.G. 1:05 Cloudy not as Dense Stars & Haze in S.W. & S | Luck |
| | | | | | | 4/3 | Clear 1:55 Sky Quite Clear star goes from sight 1:57 Haze Closing in. | |

Hour Ms.

4 P.H. Failed.

Plate Marked.

Motor Gen. making weird noises.

Feb. 29 HC +28 S  SC -2 S  SW +26 S

N.B STW dat set.

387

Z

Hispeed!

**Date** Fri., Feb 29/Mar 1, 1952 **Observer** Wm **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P. | Hour Angle End | De |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 919 | HD 17 119 | 02 39.7 | +2 9 55 | I-12½ | E103a-O | SET 008 | +1.2 C | 19 06 | ~ 20 45 | 4 | | |

Dome Temp. +27 °F

Focus 12:9.10

Dome Temp.

Transparency Conditions Considerable thin cloud

| Reading Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 4^W 20 | + 30° 10' | 0 | 8.51 | G5 | 1-1-1 | AG 25 Filling in — East wind<br>3 PH +(12 E103a-0)<br>∴ box Cramers needed | Too weak |

Date Sat Mar 1-2, 1952 Observer Hd-L Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P | Hour Angle End | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18920 | HD51101 | 06 50.9 | 24 47 | 1-12 | Hisped? | 008 | -1.0 | 21 11 | 22 11 | 2 | | |
| 18921 | nw e 139 HD44637 | 06 17.7 | 15 09 | " | " ? | " | -1.0 | 22 14 | 23 08 | 3 | | |
| 18922 | HD77313 | 08 56.7 | 26 16 | " | " | " | -1.2 | 23 13 | 00 03 | 4 | | |
| 18923 | " 86460 | 09 53.6 | 27 59 | " | " | " | -1.3 | 00 05 | 01 05 | 1 | | |
| 18924 | " 98562 | " 15.3 | 24 09 | " | " | " | -1.3 | 01 09 | 03 20 | 2 | | |
| | Glass Sky | | | | O T P | | | | | | | |

ome Temp. +25 F

ocus

ome Temp.

Transparency Conditions

Clouds at sunset. Clearing with patches of cloud 1930 —

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| 12 11 | W 1 38 | 24 44 | 0 | 7.73 | G5 | 1-1-1 | Clouds 21 26 - 21 46 | good |
| 3 08 | W 3 10 | 15 10 | 0 | 7.6 | B3e | 1-1-1 | Hand + guide | Lweak |
| [illegible] | W 1 25 | 26 04 | 0-1 | 8.00 | K0 | 1-1-1 | | fine |
| [illegible] | 1 30 W | 27 47 | 0-1 | 8.15 | G0 | 1-1-1 | AG 65 | fine |
| [illegible] | 2 25 W | 33 52 | 0-1 | 8.93 | G5 | 1-1-1 | Light clouds at 2.15 | good |
| | | | | | | 4.4 | Star gone 2.30 - 2.50 more clouds at 3.15 stars out + Pleiades + 12 | focus OK |

| | MC | SCS | MTW | STW | SW |
|---|---|---|---|---|---|
| F March 3 | +31.3 s | -4.3 m | +24.8 s | -3. m | -30 s |
| 5 | +33 s | -4.7 s | +6 s | +.2 m | +20 s |
| 7 | +36.8 s | -3.6 s | -22.2 s | -.4 m | -6 s |

Mea: STW + MTW losing ≈ 30 s a day.

391

Date Wed [illegible] Observer Ra Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P |
|---|---|---|---|---|---|---|---|---|---|---|
| 13925 | HD 19[illegible] | [illegible] | [illegible] | [illegible] | Hi speed | | | | | |
| 13925 | AC 38[illegible] | [illegible] | [illegible] | 12" | Hi speed | [illegible] | | 2103 | | |
| 13925 | HD 7629 | 05 08[illegible] | 39 [illegible] | 12" | Hi speed | .008 | -30 | 2110 | [illegible] | 1 |
| | | | | | " | " | | | | |

Dome Temp. 20

Focus

Dome Temp.

Transparency Conditions Scattered Cloud

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | 11 9 W | 27 16 | 0+ | | | | Set AG | |
| | | | | | | | Heavy cloud. Closing down 2345 | |

393

Date Sat. Mar 8/9 1952 Observer Ha - H Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.A. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18926 | H.D. 63712 | 07 45.2 | +29 26 | I-12½ | Hi Speed | 2nd .8 | -2.2° | 21 06 | 02 [illegible] | 3 |
| 18927 | H.D. 70030 | 08 14.7 | +31 39 | " | " | " | -2.2 | 21 02 | 23 12 | 4 |
| 18928 | H.D. 91935 | 10 52.8 | 29 39 | " | " | " | -2.3 | 23 17 | [illegible] 17 | 1 |
| 18929 | " [illegible] 41 | 11 35.6 | 31 08 | " | " | " | -2.5 | [illegible] | 0140 | 2 |
| 18930 | " 10[illegible] | 12 31.0 | 0 926 | " | " | " | -2.0 | 01 46 | [illegible] | [illegible] |
| 18931 | " 1307 | 1441.9 | 25 35 | " | " | " | -2.1 | 1 37 1 | 04 35 | [illegible] |
| 18932 | Z H... | 1753.6 | 1508.9 | " | " | " | -2.1 | 05 12 | [illegible] | 1 |
| | [illegible] Vul | | | | O.T.G. | | | | | |

Dome Temp. +22 °F
Focus 12.910
Dome Temp. +19 °F

Transparency Conditions Good, clouds [illegible]



| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| W 1 01 | 29 17 | 0-1 | 8.05 | G5 | 1-1-1 | AG25 | Cracked plate found in telescope, might have been from [illegible], but [illegible] numbered 18925 A | [illegible] |
| W 1 44 | [illegible] 33 | 0-1 | 8.50 | K2 | 1-1-1 | AG25 | 22:50 light clouds in S [illegible] | good |
| [illegible] | 29 10 | 0 | 7.79 | K0 | 1-1-1 | AG25 | 23:3? light clouds [illegible] | fine |
| [illegible] | [illegible] | 0 | [illegible] | M0 | 1-1-1 | AG25 | [illegible] | good |
| [illegible] | [illegible] | 0 | 8.6? | G0 | 1-[illegible] | " " | [illegible] | good |
| [illegible] | [illegible] | 0 | [illegible] | K0 | 1-1-1 | AG25 | | [illegible] |
| 01 13 | 15 08.5 | 0-1* | 8.0 | $F_2$ | 1-1-1 | Ecl. Bin. | * Seeing variable 0-2 | [illegible] |
| | | | | | 4/3 | | | O.K. |

I.P.H. [illegible] +12

H. on M.

| | MTW | STW | MC | SC | SW |
|---|---|---|---|---|---|
| Mar 10. | $-16.8^s$ | $-.6^m$ | $+40.2^s$ | $-15.7^s$ | $-38^s$ |

Date ..... Observer ..... Julian Day .....

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.. |
|---|---|---|---|---|---|---|---|---|---|---|
| | H.D. 100947 | | | I-12½ | | | | | | |

Dome Temp. +30°F

Focus 12.910

Dome Temp.

Transparency Conditions Good at 2345

By 0045 Hub Broke Cloud

0053 Can't get in close enough to ~~Telescope~~.

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0127 Still Hopeless. Much Broke Cloud More Coming. Quite Windy | |
| | | | | | | | F.H. +12. H m M | |
| | | | | | | | 1 chart on NOTICE BOARD in Dome Lecture. | |
| | | | | | | | Mar. 12 HC +42.0 s SC -5.1 s HTW +26.0 s STW +.3 m SW +6 s | |

Date Wed 12/13 ... Observer R.a. - L. Julian Day .....

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18933 | AG 1265 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 16.5-15.5 | 1956 | 2026 | 2 | [illegible] |
| 18934 | HD 26312 | 04 05.1 | 26 15 | " | " | " | 15.5-14.5 | 2032 | 2256 | " | [illegible] |
| 18935 | HD 4914) | 06 41.9 | 26 49 | " | " | " | 14.5-13.9 | 2212 | 00 20 | 1 | [illegible] |
| | | | | | | | | | | 1 | |

Transparency Conditions Good.

Dome Temp. 24

Focus 12.910

Dome Temp. +26°F

Note Spectrograph Temp. Thermostat was left on by last night's observer. Should provide a steady temperature

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| [illegible] | 5 12 W | 30 04 | 0 | ? | G5 | 1-1-1 | AE | weak |
| [illegible] | 5 03 W | 26 23 | 0 | 8.9 | G0 | 1-1-1 | " | weak |
| [illegible] | 4 40 W | 26 4[illegible] | 0 | 9.0 | G0 | 1-1-1 | " Star lost in haze at end. | weak |
| | | | | | | | 4 PHs loaded + 8 [illegible] | |
| | | | | | | | Sky hopeless, closed at 1:00 AM | |

| | HC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| March 14 | $+14.3^s$ | $-6.9^s$ | $+7.6^s$ | $-.2^m$ | $-18^s$ |

399

Date Feb 19/20 Feb 1952 Observer B — H — Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.P. |
|---|---|---|---|---|---|---|---|---|---|---|
| 15936 | HD 30352 | 04 41 6 | 43 06 | 12" | Ilford | .045 | -2.0 | 11 04 | 2054 | 1 |
| 15937 | Nr. 42.191 | 05 41? | 41 4? | | | | -3.0 | 21 30 | 00 10 | 2 |
| 18938 | HD 100717 | 11 32 0 | 26 17 | | | | -3.0 | | 03 05 | 3 |
| 18939 | 117062 | 13 22.7 ~~22.7~~ | 24 50 | " | " | " | -3.0 | 01 11 | 04 44 | 4 |
| 18940 | Z Her. | 1753.6 | 1608.7 | | | | -3.0 | 04 53 | 08 43 | 1 |
| | 〃 | 〃 | 〃 | | O.T.G. | | | | | |

Dome Temp. 25

Focus 12 910

Dome Temp. +17 5

Transparency Conditions Good

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 32 W | 43 12 | 0 | 8? | G-F | (-1-) | | fine |
| 38 W | -6 4. | 0 | ?0 | G0 | 1-1-1 | AG 25 | |
| 1 W | +80 2 | 0 | 5.6 | F2 | 1-1-1 | A.G 25. | |
| 33 | 3 4 33 | 0 | 9.0? | G5 | 1-1-1 | AG-.25 | fine |
| 5 | 60.5 | 0 | 8.0 | F2 | 1-1-1 | E.I Bin. | |
| | | | | | 4/3. | | |
| | | | | | | 4 PH. + 1 | |
| | | | | | | H — M. | |

| | HC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| Mar. 17 | +~~12.2~~ 18.2 s | -6.9 s | +12.2 s | +.1 m | -13 s |

Sun Mar 16-17. Partly clear about 20.45 but records too windy to open. - Hal

2225 Wind ... fitting ... tens. ... from filling ... N.W. till ... of Wind ... 5 A.M.

**Date** Mon., Mar. 17/18, 1952 **Observer** Wm. - H. **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | CRAMER | SFT | | | | | |
| 18941 | HD 52 765 | 06 57.4 | +25 14 | I-12½ | HI-SPEED | 008 | -1°2C | 19 10 | 21 10 | 1 | |
| 18942 | HD 74 925 | 08 41.8 | +28 21 | " | " | " | -1.3 | 21 15 | 23 45 | 2 | |
| 18943 | HD 103 095 | 11 47.2 | +3° 26 | " | " | " | -1.3 | 23 52 | | 3 | |
| | " 105 52 | | | | | | | | 02 53 | 4 | |
| | " 130 766 | | | | | | -1.3 | | | 1 | |
| | | | | | | | -1.3 | | | 2 | |
| | 2 Her | | | | | | -1.3 | | | 3 | |
| | | | | | O.T.B. | | | | | | |

Dome Temp. +28°F

Focus 12.9.10

Dome Temp.

Transparency Conditions Fair — considerable haze

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| 1ᵂ35 | +25°10′ | 0 | 8.86 | KO | 1-1-1 | AG25 | |
| 2ᵂ26 | +28 00 | 0+ | 8.98 | GO | 1-1-1 | " Considerable haze | |
| | 32 | 0-1 | 7.24 | G5 | 1-2 | Standard Velocity Star | |
| | | 0 | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | 4/3 | | |
| Thurs Mar 20-21 a few Terrors | | partly clear Seeing off at 23 05 -1/4d | | | | 4 P.H. + 18 H. or M. | |
| | | | | | | March 19 MC +21.0 SC -6.4 HTW -19.0 STW -.4 SW +1 — 1 Lt of Dome Lights Upstairs do not light | |
| | | | | | | March 24 MC +22.5 SC -6.0 HTW +.5 STW -.1 SW -3 — 24 +2 -7.8 -2 -.7 -16 | |

403

**Date** Mon., Mar. 24/25., 1952 **Observer** Wm. **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. | Hour Angle End |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~18948~~ | HD 57 470 | 07 16·3 | +30 01 | I-12½ | CRAMER HI-SPEED | SET 008 | +1°.8C | 19 34 | ~2055 | 4- | -1h 21 |

Dome Temp. - 3
Focus 1 6
Dome Temp.

Dome Temp. +34°F

Focus 12.9.10

Dome Temp.

Transparency Conditions Somehaze & cloud

Clouds from sunset to opening, time delayed opening

| Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|
| ~1W26 | +29° 59′ | 0 | 8.8g | K2 | 1-1-1 | Clouds ~20:5<br>Hour M<br>2/8 PH +18 | too weak. |

Date Tues March 25/26, 52 Observer L-H Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.I |
|---|---|---|---|---|---|---|---|---|---|---|
| 18948 | HD 77586 | 08 58.4 | 29 41 | I 12½' | Gramer Hi speed | 3 set .008 | +2.1 | 21 07 | 22 47 | 2 |
| 18949 | " 93242 | 10 40.9 | 26 08 | " | " | " | +2.1 | 22 51 | 00 21 | 3 |
| 18950 | " 109482 | 12 29.9 | 29 32 | " | " | " | 2.2 | 00 32 | 01 52 | 4 |
| 18950F | " ~~72134~~ | Focus | Foc | | OTB | | | | | 1 |

Used Mar. 26-27, 1952

32 Astronomers 1 b. student. Cloudy Ba demonstrated tele use.

Showed Dunn machine shop, clock room, measuring room. N. C.

Dearborn + L Anderson

Dome Temp. +32°F
Focus 12.910
Dome Temp. +27°F

Transparency Conditions Fair

Clouds at sunset and in early evening.
About 30 of H.L. Hoggs students, showed 3 careers with 7¼"

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 1 41 W | 29 27 | 0 | 8.72 | M2 | 1-1-1 | A.G. 25 | v wk. |
| | 0 44 W | 25 52 | 0 | 8.72 | G5 | 1-1-1 | " " | v wk |
| | 0 12 W | 3 7 S | 0 | 8.63 | G5 | 1-1-1 | " " | fine |
| | | | | | | 4/3 | 23 E Clouding up [illegible] | |
| | | | | | | | 02 3 Hot after [illegible] | |
| | | | | | | | [illegible] | |
| | | | | | | | 7 PM +12 | |
| | | | | | | | Hour M. | |
| | | | | | | | Also showed Saturn with long slit to Coude | |
| | | | | | | | HC SC HTW STW SC | |
| | | | | | | | March 26 +29.5s -7.5s -7.0s -.2m -11s | |

Date Thurs Mar 27-28, 192 Observer Hd-Hr Julian Day

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. |
|---|---|---|---|---|---|---|---|---|---|---|
| 18951 | H D 74811 | 08 41.1 | 28 32 | I-12 | Hispeed | 008 | +1.9 | 20 45 | 21 05 | 1 |
| 18952 | HD 78277 | 09 02.4 | 27 58 | " | " | " | +1.9 | 21 07 | 23 07 | 2 |
| 18953 | HD 94736 | 10 45.2 | 26 44 | " | " | " | +1.8 | 23 11 | 0001 | 3 |
| 18954 | " 104784 | 11 59.7 | 35 30 | " | " | " | 1.5 | 00 14 | 0210 | 4 |
| 18955 | " 118971 | 13 36.3 | 26 26 | " | Ens 1-0 | " | 1.5 | 0215 | 0315 | 1 |
| 18956 | " 126009 | 14 17.9 | 29 51 | " | " | " | 1.7 | 0323 | 0407 | 2 |
| 18957 | " 136874 | 15 14.7 | 20 09 | " | " | " | 1.5 | 0351 | 0440 | 3 |
| 18958 | 7 Her | 17 53.6 | 36 04 | " | " | " | 1.5 | 0434 | 0510 | 4 |
| | [illegible] | [illegible] | | | O.T.13. | | | | | |

Dome Temp. 32F
Focus 12.910
Dome Temp. 26°F

Transparency Conditions Poor (clouds & haze)

408

| Ending Time E.S.T. | Hour Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | W 0 25 | 28 20 | 0 | 6.x3 | $G_0$ | 1-1-1 | | good |
| | W 2 05 | 27 45 | 1 | 8.87 | $G_5$ | 1-1-1 | | good |
| | | 26 -5 | 1 | 8.12 | $M_0$ | 1-1-1 | | l weak |
| | | 25 11.5 | 0 | 8.18 | $G_0$ | 1-1-1 | Ab 25 | weak |
| | | | 0 | 8.04 | $G_5$ | 1-1-1 | Ab 25 | faint |
| | | | 0 | 7.94 | $M_3$ | 1-1-1 | | faint |
| | | | 0 | 8.3 | | 1-1-1 | | faint |
| | | 15 07.5 | 0 | | $F_2$ | 1-1-1 | Ecl. Bin. | strong |
| | | | | | | | H — M. | |
| | | | | | | | 12" Cr Hyper PL - D | |
| | | | | | | | 4 Ehl A-D PhH* — D. | |
| | | | | | | | 3 P.H. Lodi with Eyepieces* | |
| | | | | | | | MC SC HRW STW SW | |
| | | | | | | | Mar. 28 +32.2s -6.3s +12.2s 1.1m -32s | |
| | | | | | | | *New Batch JTE 7 4 65. Dr Hans suggested trying them. | |

**Date** Sat., Mar. 29/30, 1952 **Observer** Wm. / L **Julian Day**

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. | P.E. | Hour Angle End | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SET | | | | | | |
| 18959 | HD 65 583 | 07 54.3 | +29 31 | I-12½ | E103a-O | 008 | +5°.2 C. | 19 22 | 19 52 | 1 | | |
| 18960 | HD 75 935 | 08 47.9 | +27 18 | " | " | " | +5°.2 | 19 57 | 21 57 | 2 | | |
| 18961 | HD 89 415 | 10 14.1 | +29 51 | " | " | " | +5.0 | 22 08 | 00 08 | 3 | | |
| 18962 | " 107132 | 12 14.0 | 25 24 | " | " | " | +5.0 | 00 13 | 01 52 | 4 | | |
| 18963 | A.G. 6705 | 14 00.3 | 26 19 | " | " | " | +5.0 | 02 03 | 03 43 | 1 | | |
| 18964 | H.D. 150665 | 16 37.4 | 26 17 | " | " | " | +5.0 | 03 49 | 05 19 | 2 | | |
| | Focus Test | | | O.T.B. | | | | | | | | |

ome Temp.....+40° F
ocus.....12.0.10.....
ome Temp.....+32°F

Transparency Conditions.....

| Ending Time E.S.T. | our Angle End | Declination | Seeing | Ptg. Mag. | Sp. | Comp. | REMARKS | Quality |
|---|---|---|---|---|---|---|---|---|
| | 0W06 | +29°22' | 0 | 7.50 | G7 | 1-1-1 | Std Vel | |
| | 1W18 | +27 07 | 0 | 8.97 | K0 | 1-1-1 | AG 25 plate numbered 18961 | |
| | 2 53W | +29 36 | 0 | 8.98 | G0 | 1-1-1 | AG25 | |
| | 1 53W | 25 07 | 0-1 | 8.80 | G0 | 1-1-1 | " " | |
| | 1 53W | 26 04 | 1 | 8.70 | K0 | 1-1-1 | " " | |
| | 0 53W | 26 10 | 1 | 864 | K0 | 1-1-1 | " " Light haze, during last half of exposure | |
| | | | | | | 4/3 | 1 PH. Under plates needed. | |

| | MC | SC | MTW | STW | SW |
|---|---|---|---|---|---|
| March 31 | +34.5 s | -6.3 s | -25.5 s | -.4 m | +21 s |
| Apr. 2 | +38.0 s | -7.3 s | -15.5 s | -.1 m | +9 s |
| 4 | +40.0 s | -6.8 s | -14.3 s | .0 m | +1 s |
| 7 | +43.7 s | -11.8 s | -12.8 | -.1 m | -3 s |

Date..... Observer..... Julian Day.....

| Plate No. | Object | R.A. 1900 | Declination 1900 | Inst. | Emulsion | Slit | Temp. | Starting Time E.S.T. | Ending Time E.S.T. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Ending Time E.S.T.